



SYSTEMS MANAGEMENT

Entire Operations

Administration

Version 3.2.1

Order Number: NOP321-040ALL

This document applies to Version 3.2.1 of Entire Operations and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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|---|----|
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System Administrator Services - Overview

▶ To enter the Entire Operations 3.2.1 online System Administrator Services

- Select option **6** from the Main Menu:

The following screen appears:

```

23.04.00          *** Entire Operations 3.2.1 ***          15:33:58
Owner EXAMPLE          Main Menu          User ID GHH
-----
Main Menu          DC Solutions

1  Network and Job Maintenance          20  Entire Event Management (V132)
2  Active Job Networks          21  Entire Output Management (V134)
3  Calendar Maintenance
4  Log Information
5  Symbol Tables
6  System Administrator Services
7  Reports          Applications
8  Import/Export
9  Help          30  sysmain

Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help          End          Owner Mail

```

The System Services Menu appears:

```

23.04.00          *** Entire Operations 3.2.1 ***          15:38:40
Owner EXAMPLE          System Services Menu          User ID GHH
-----
System Services Menu

1  User Maintenance
2  Entire Operations Monitor
3  Definition of Nodes
4  Entire Operations Defaults
5  Monitor Defaults
6  Global Message Code Table
7  Resource List
8  Mailbox Definition
9  Internal Exit Directory
10 Special Functions

Command =>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help          End          Menu

```

The options provided have the following meaning:

Click on the option name for more precise information about that system service.

| Option No. | Option Name | Meaning |
|-------------------|----------------------------------|---|
| 1 | User Maintenance | List, add, delete and modify user profiles. |
| 2 | Entire Operations 3.2.1 Monitor | Display Monitor status and control the Monitor. |
| 3 | Definition of Nodes | List, add, delete and modify nodes in a multi-CPU environment. |
| 4 | Entire Operations 3.2.1 Defaults | Define defaults for the operating system, nodes, date, language, retention periods and other system defaults. |
| 5 | Monitor Defaults | Define node, user ID, module and other defaults for the Entire Operations 3.2.1 Monitor. |
| 6 | Global Message Code Table | Define message codes to be checked by default after each job termination. |
| 7 | Resource List | List, add, delete and modify available resources. |
| 8 | Mailbox Definition | List, add, delete and modify mailboxes. |
| 9 | Internal Exit Directory | List and modify the internal directory of User Routines. |
| 10 | Special Functions | Special global, control and recovery options. |

User Maintenance

To enter the User Maintenance Facility

- Select option **1** from the System Services Menu.

A list of Entire Operations 3.2.1 user IDs appears with their associated owner names:

```

23.04.00                *** Entire Operations 3.2.1 ***                15:40:52
                        User List
-----
      Cmd      User Name      Owner Name
      *-----
      _      ADMIN      SYSDBA
      _      ASF      ASF
      _      GHH      EXAMPLE
      _      DEMO      SN
      _      DEMODEMO      SN
      _      DOC      DOC
      _      DOC-2      DOC
      _      DOC2      MBE
      _      DP5      SAJPR
      _      DRO      EXAMPLE
      _      DWE      DWE
      _      DWI      DWI

***** m o r e *****
D Delete      M Modify

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Add      End              Save              Up              Down              Menu

```

You can scroll the list using PF7 (Up) and PF8 (Down). For a more selective list, add a start value in the first line of the User Name column. For example, enter **S** and press Enter to start the list with IDs beginning with **S**.

You can add, delete and modify user profiles using the available line commands and PF keys. When using line commands, select a user by entering the line command in the input field that precedes the user ID.

The available line commands are:

Line Commands: User List

| Cmd | Description |
|-----|---------------------------------------|
| D | Delete a user definition and profile. |
| M | Modify a user definition and profile. |

Adding a User

▶ To add a user definition and profile

- Press PF2 (Add) from the User List.

The Entire Operations User Definition and Profile screen appears:

```

15.02.00          *** Entire Operations 3.2.1 ***          12:39:53
                  User Definition and Profile
-----
      User ID ==> SN_____  Owner at Logon ==> REQUEST____  Mailboxes
                                                                SN_____
                                                                _____
      User Type ==> 0
      Profile ==> _____
      Language Code ==> 2__ German
                                                                _____
      Max. Lines in Log Display ==> _____
                                                                _____
                                                                _____
                                                                _____
                                                                _____
                                                                _____
                                                                _____
                                                                _____
      Profile Settings ( not for User Type 'A' )
      Administrator Functions ==> _ (mark with any character)
      Network Maintenance ==> _
      Reporting ==> _
      Monitoring ==> _
      Command ==> _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          End          Save          Nodes Owner          Menu
  
```

Special PF Key: User Definition and Profile

| Key | Name | Function |
|-----|-------|--|
| PF8 | Nodes | Define operating system server default user IDs. See Defining Operating System Server Default User IDs For a User. |
| PF9 | Owner | Link a user to additional owners. See Linking Users to Owners. |

This screen consists of two parts:

- The User Definition in the top half of the screen;
- The Profile Settings in the bottom half of the screen.

These are described separately in the following subsections:

User Definition

You define a user to Entire Operations 3.2.1 in the fields in the top half of the User Definition and Profile screen:

| | | |
|-----------------------------|---------------------------------|--------------------|
| 23.04.00 | *** Entire Operations 3.2.1 *** | 15:43:02 |
| User Definition and Profile | | |
| ----- | | |
| User ID ==> _____ | Owner at Logon ==> _____ | Mailboxes _____ |
| User Type ==> _ | | _____ |
| Profile ==> _____ | | _____ |
| Language Code ==> ____ | | _____ |
| | | _____ |
| | | _____ |
| | | _____ |

Field Descriptions: User Definition

Meaning of the input fields:

| Field | Meaning | |
|------------------------------|--|--|
| User ID | Entire Operations 3.2.1 user ID. This is the user ID with which the user should log on to Entire Operations 3.2.1. It must be the same as the TP user ID if external security systems such as RACF, TOP SECRET or ACF2 are used, and to enable message switching. | |
| User Type | Specifies level of user activity. The value entered here sets certain authorization defaults in the user profile. Possible options: | |
| | A | System Administrator |
| | O | Operator |
| | G | General User |
| | With these options, the profile settings of a user are predefined. Individual settings can be displayed and modified at any time using the profile settings options in the lower half of this screen (see below). User profiles can be modified individually at any time. | |
| Profile (optional) | You can specify an existing user ID from which to copy the associated user profile for the new user. No other definition apart from the user ID is then required. | |
| Language Code | Determines the user language under which Entire Operations 3.2.1 is to run. Possible options: | |
| | 1 | English |
| | 2 | German |
| | Note: | The language can be modified anytime during the session using the direct command SET LANGUAGE 1 or SET LANGUAGE 2. |
| Maximum Lines in Log Display | Default for the maximum number of lines used in the Log Display. The value may be overridden there . The value zero (or empty) means: no limit. | |
| Owner at Logon | A job network belongs to an owner. Users linked to that owner are allowed to perform any activity on that network. This includes the granting of some job network functions to other users. The owner at logon must always be defined. Other owners can be defined by pressing PF9 (Owner). If other owners are defined, the user can switch to one of them during his/her session. The user is also authorized to access the objects belonging to the other owners by using the SET OWNER command. | |
| | Note: | A user linked to the owner SYSDBA is authorized to access any object in the whole system. |
| Mailboxes | Mailbox(es) associated with the user. User is notified of any pending requests linked to the same mailboxes. You can specify up to 10 mailboxes per user. | |

Profile Settings

Defining a user profile consists of authorizing the user for a certain level of activity in the various system facilities. Profile settings are only useful for General Users (type **G**) and Operators (type **O**). System Administrators (type **A**) have no restrictions and therefore need no profile. The bottom part of this screen cannot be filled out for user type **A**.

You can enter one of the following options for each function:

| Option | Meaning |
|--------|--|
| Y | ALLOW function |
| N | DISALLOW function |
| R | READ access only (no definition/modification of item allowed) |
| W | READ/WRITE access (definition/modification allowed, but no delete) |
| D | READ/WRITE/DELETE access (all functions allowed) |

You define a user profile using the fields in the bottom half of the User Definition and Profile screen:

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| <div style="text-align: right;"> <input type="text"/> <input type="text"/> <input type="text"/> </div> | | | | | | | | | | | |
| Profile Settings (not for User Type 'A') Administrator Functions ==> _ (mark with any character) Network Maintenance ==> _ Reporting ==> _ Monitoring ==> _ Command => _____ Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- Help End Save Owner Menu | | | | | | | | | | | |

User authorizations fall into four groups:

- Administrator functions;
- Network Maintenance;
- Reporting;
- Monitoring.

You select a group of functions by entering any character in the appropriate input field and pressing Enter. A window opens with possible functions, the default authorization value according to user type and optionally copied profile. You can modify the authorization values by overtyping them in the window.

Administrator Functions

If you select the administrator functions, you can authorize the user for the following activities in the Entire Operations 3.2.1 System Administrator Services.

Enter one of the available options for each function:

| Function | Options | Default for user type | | | Meaning |
|------------------------|-----------|-----------------------|---|---|---|
| | | A | O | G | |
| User Definition | R, W or D | D | - | - | Specifies access rights in the User Maintenance facility. |
| Logical Resources | R, W or D | D | D | - | Specifies access rights in the Resource Definition Maintenance facility. |
| Nodes Definition | R, W or D | D | D | - | Specifies access rights in the Nodes Maintenance facility. |
| Defaults Definition | R, W or D | D | - | - | Specifies access rights in the System Defaults Maintenance facility. |
| Mailbox Definition | R, W or D | D | D | - | Specifies access rights in the Nodes Maintenance facility. |
| Monitor Start/Shutdown | Y or N | Y | Y | N | Authorizes user to start or shutdown Entire Operations 3.2.1 Monitor manually and display Monitor status information. See the command STATUS in Section Direct Commands of the Entire Operations Reference Documentation. |
| Other Functions | Y or N | Y | N | N | Authorizes the user for the following options on the System Services Menu: Global Message Code Table, Internal Exit Directory, Special Functions. |
| Import / Export | Y or N | Y | N | N | Authorizes user for the Import/Export Utility on the Entire Operations 3.2.1 Main Menu. |

Press Enter to save the authorizations. Press PF3 (End) to close the window.

Network Maintenance Functions

If you select the Network Maintenance group of functions, you can authorize the user for the following activities in the Job and Network Maintenance facilities on the master database.

Enter one of the available options for each function:

| Function | Options | Default for user type | | | Meaning |
|--------------------------|-----------|-----------------------|---|---|---|
| | | A | O | G | |
| Network Definition | R, W or D | D | - | D | Specifies access rights in the Network Maintenance facility. |
| Job Definition | R, W or D | D | - | D | Specifies access rights in the Job Maintenance facility. |
| Prerequisite Definitions | R, W or D | D | - | D | Specifies access rights in Conditions Maintenance and resource specification at job level. |
| EOJ Checking + Actions | R, W or D | D | - | D | Specifies access rights in the End-of-Job Checking + Actions facility. |
| JCL Definition | R, W or D | D | - | D | Specifies access rights in JCL Editor facility. |
| Description Display | R, W or D | D | - | D | Specifies access rights in Text Editor facility. |
| Symbol Tables | R, W or D | D | - | D | Specifies access rights in Symbol Table Maintenance facility. |
| Calendars | R, W or D | D | - | D | Specifies access rights in Calendar Maintenance facility. |
| Editor Autosave | Y or N | Y | - | Y | If "Y" is defined here, the editor feature "AUTOSAVE ON" is active at the start of the editing session. |

Press Enter to save the authorizations. Press PF3 (End) to close the window.

Reporting Functions

If you select the Reporting group of functions, you can authorize the user to display the following reports in the Entire Operations 3.2.1 reporting facility.

Enter one of the available options:

| Function | Options | Default for user type | | | Meaning |
|---------------------------------|---------|-----------------------|---|---|---|
| | | A | O | G | |
| Log of Abended Jobs | Y or N | Y | N | Y | Authorizes the user to display the Log - Abended Jobs and the Log - Jobs not started. |
| Log of Completed Jobs | Y or N | Y | N | Y | Authorizes the user to display the log of jobs that terminated. |
| Network Activation & Schedule | Y or N | Y | N | Y | Authorizes the user to display the Network Activation Summary and the Network Schedule Overview. |
| Network Description (short) | Y or N | Y | N | Y | Authorizes the user to display the report on network and (short) job definitions. |
| Network Description (detailed) | Y or N | Y | N | Y | Authorizes the user to display the report on network and (detailed) job definitions, including text descriptions. |
| Schedule of Jobs | Y or N | Y | N | Y | Authorizes the user to display the report Schedule of Jobs. |
| Job Flow | Y or N | Y | N | Y | Authorizes the user to display the report Network and Job Flow Display. |
| Job Accounting | Y or N | Y | N | Y | Authorizes the user to display the report on accounting data. |
| Symbol Printing after Prompting | Y or N | Y | Y | Y | Determines whether or not all symbols are printed after prompting (see the subsection Accepting all Symbols and Printing Symbols after Prompting in Section Symbols of the Entire Operations User's Guide. To change the default for user type A , first change the user type to G or O , enter N in this field and change user type back to A . |
| Cross References | Y or N | Y | N | Y | Authorizes use of direct command XREF. |

Press Enter to save the authorizations. Press PF3 (End) to close the window.

Monitoring Functions

If you select the Monitoring group of functions, you can authorize the user for the following ad-hoc activities on jobs in the active database.

Enter one of the available options for each function:

| Function | Options | Default for user type | | | Meaning |
|--------------------------|-----------|-----------------------|---|---|---|
| | | A | O | G | |
| Active Jobs | R, W or D | D | D | D | Specifies access rights for ad-hoc modifications to active jobs. |
| Show Mailbox Requests | Y or N | Y | Y | Y | Authorizes the user to display and reply to mailbox messages. |
| Prerequisite Definitions | R, W or D | D | D | D | Specifies access rights in ad-hoc condition maintenance and resource specification. |
| EOJ Checking + Actions | R, W or D | D | D | D | Specifies access rights in end-of-job checking and actions for an active job. |
| JCL Definitions | R, W or D | D | D | D | Specifies access rights in editing JCL for an active job. |
| Prose Display | R, W or D | D | D | D | Specifies access rights for prose description (display only). |
| Active Conditions | R, W or D | D | D | D | Specifies access rights in Active Condition Maintenance. |
| Activate Network | Y or N | Y | Y | Y | Authorizes user to activate networks manually. |
| Resubmit Job | Y or N | Y | Y | Y | Authorizes user to use the resubmit function for an active job. |
| Hold/Release Job | Y or N | Y | Y | Y | Authorizes user to use the HOLD or RELEASE operator command for an active job. |
| Regenerate JCL | Y or N | Y | Y | Y | Authorizes user to regenerate JCL for an active job. |
| Display Job Sysout | Y or N | Y | Y | Y | Authorizes user to display job sysout for a job run. |
| Cancel Job | Y or N | Y | Y | Y | Authorizes user to use the CANCEL operator command for a running job. |
| Log Display | Y or N | Y | Y | Y | Authorizes user to display Entire Operations 3.2.1 log. |

Press Enter to save the authorizations. Press PF3 (End) to close the window.

When you have finished defining all functions, press PF5 (Save) to save the User Definition and Profile. Press PF3 (End) to return to the list of users. The new user now appears on the list.

Modifying a User

To modify the definition and profile of an existing user

1. Enter **M** in the line command field of the selected user in the User List and press Enter. The User Definition and Profile screen appears with the current user definition. You can modify the definition and profile settings in the same way as when adding a user.
2. Press PF5 (Save) to save the modifications. Press PF3 (End) to return to the User List.

Deleting a User

▶ To delete a user definition and profile

1. Enter **D** in the line command field of the selected user and press Enter. A window opens in which you can confirm the deletion by entering the user ID.
2. Enter the user ID and press Enter to perform the deletion and close the window.

Defining Operating System Server Default User IDs For a User

For each operating system server node a user is working with, you can define a default user ID per user. By default, the content of the Natural system variable *USER will be used for a node logon.

In addition, it is possible to specify a group (for UNIX) or a Windows NT domain (in the group field).

▶ To define operating system server default user IDs

- Press PF8 in the User Definition and Profile screen.

The following screen appears:

| | | | | | |
|--|--|------|---------|-------|----------|
| 13.04.00 | *** Entire Operations 3.2.1 *** | | | | 14:32:07 |
| User SN | Operating System Server Default User IDs | | | | |
| ----- | | | | | |
| | Cmd | Node | User ID | Group | |
| | — | 38 | GSM | | |
| | — | 448 | sag | | |
| | — | 404 | sn | | |
| | — | 403 | sn | | |
| | — | 508 | sn | | |
| | — | 505 | sn | | |
| | — | 501 | sn | | |
| | — | | | | |
| | — | | | | |
| | — | | | | |
| | — | | | | |
| | — | | | | |
| | — | | | | |
| ***** Bottom of Data ***** | | | | | |
| D Delete | | | | | |
| nter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | |
| | Help | Add | End | Save | |
| | | | Up | Down | |
| | | | | Menu | |

Special PF Key: Add a User Node/User ID Definition

| Key | Name | Function |
|-----|------|--|
| PF2 | Add | Add a user node or user ID definition. |

Line Commands: Delete a User Node/User ID Definition

| Cmd | Description |
|-----|-----------------------------|
| D | Delete a definition. |
| M | Modify a definition. |

Definition and Modification of Entries

This is the definition and modification screen:

| | | | | |
|---------------------|--|---------------------------|----------------------------------|----------|
| 09.02.00 | *** Entire Operations 3.2.1 *** | | | 11:12:07 |
| User SN | Operating System Server Default User IDs | | | |
| ----- | ----- | | | |
| Cmd | Node | User ID | Group | |
| — | 515 | sn | | |
| — | 38 | GSM | | |
| — | 448 | +-----+-----+-----+-----+ | | |
| — | 404 | ! | | ! |
| m | 403 | ! | Node Default User ID for User SN | ! |
| — | 508 | ! | | ! |
| — | 505 | ! | Node ==> 403_____ | ! |
| — | 504 | ! | User ID ==> sn_____ | ! |
| — | 501 | ! | Group ==> SAG-HQ_____ | ! |
| — | 507 | ! | | ! |
| — | 510 | ! | ---PF1---PF3-----PF5----- | ! |
| — | 516 | ! | Help End Save | ! |
| — | 511 | +-----+-----+-----+-----+ | | |
| — | 408 | sn | sag-hq | |
| — | 509 | sn | | |
| ***** m o r e ***** | | | | |
| D Delete | M Modify | | | |
| Enter-PF1--- | PF2--- | PF3--- | PF4--- | PF5--- |
| PF6--- | PF7--- | PF8--- | PF9--- | PF10--- |
| PF11--- | PF12--- | | | |
| Help | Add | End | Save | Up |
| | | | Down | Menu |

The field Group is optional. Its usage is:

| | |
|-------------------------|-------------------|
| Mainframe nodes | no meaning |
| UNIX nodes | UNIX group |
| Windows NT nodes | Windows NT domain |

Linking Users to Owners

To link a user to additional owners

1. Press PF9 (Owner) on the User Definition and Profile screen.

The following Owner List window opens on the right:

```

24.04.00          *** Entire Operations 3.2.1 ***          11:28:01
                    User Definition an +-----+
-----+-----+-----+-----+-----+-----+
User ID ==> GHH_____ Owner at Logo ! User MBE ! xes
                                           ! Owner List ! _____
                                           ! PF2: Add 'D' Del. ! _____
User Type ==> A !                                     ! _____
Profile ==> _____ !                               ! _____
Language Code ==> 1__ English !                         ! _____
                                           ! _ EXAMPLE ! _____
                                           ! _ MBE ! _____
                                           ! _ SN ! _____
                                           ! _ ! _____
                                           ! _ ! _____
                                           ! _ ! _____
Profile Settings ( not for User Type ' ! _ ! _____
Administrator Functions ==> _ (mark with ! _ ! _____
Network Maintenance ==> _ ! _ ! _____
Reporting ==> _ ! _ ! _____
Monitoring ==> _ ! _ ** Bottom ** ! _____
                                           ! --PF3---PF7--PF8--- ! _____
Command => _____ ! End Up Down ! _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF +-----+ F12---
Help End Save Owner Menu

```

2. To link the user to new owners press PF2 (Add).

Special PF Key: Owner List - window

| Key | Name | Function |
|-----|------|-------------------------------------|
| PF2 | Add | Link a user to additional owner(s). |

Line Commands: Owner List - window

| Cmd | Description |
|-----|-----------------------------|
| D | Delete the user/owner link. |

The User/Owner Linkage window opens on the left:

```

24.04.00          *** Entire Operations 3.2.1 ***          11:46:01
                    User Definition an +-----+
-----+-----+
!                                     !
!                                     !
! User ID ==> MBE_____ Owner at Logo ! User MBE          ! xes
!                                     ! Owner List        ! _____
!                                     ! PF2: Add 'D' Del.   ! _____
!                                     !
! User Type ==> A              !                                     !
! Profile ==> _____      !                                     !
! Language Code ==> 1__ English !                                     !
!                                     !
+-----+-----+
!                                     !
! User/Owner Linkage          !                                     !
!                               !                                     !
! UserID ==> MBE              ! ' !                                     !
! Owner  ==> _____      ! th !                                     !
!                                     !                                     !
! PF3 End                    !                                     !
+-----+-----+
!                                     !
!                                     ! ** Bottom **      !
!                                     ! --PF3---PF7---PF8--- !
! Command => _____      ! End Up Down       !
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF +-----+ F12---
! Help          End          Save          Nodes Owner Menu

```

Within this window you can enter new owners to be linked to the specified user:

- In the Owner field, enter the owner name and press Enter to link it to the user.

Owner names must start with a letter and may not contain blanks.

► To select an existing owner from a list

1. Enter an asterisk * in the Owner field and press Enter.

A window with a selection list of owners opens on the right:

```

24.04.00          *** Entire Operations ***          11:46:01
                    User Definition an +-----+
-----+-----+
!                                     !
!                                     !
! User ID ==> GHH_____ Owner at Logo ! Owner Selection    ! _____
!                                     ! ** Top **          ! _____
! User Type ==> A              !                                     !
! Profile ==> _____      !                                     !
! Language Code ==> 1__ English !                                     !
!                                     !
+-----+-----+
!                                     !
! User/Owner Linkage          !                                     !
!                               !                                     !
! UserID ==> GHH              ! ' !                                     !
! Owner  ==> *_____      ! th !                                     !
!                                     !                                     !
! PF3 End                    !                                     !
+-----+-----+
!                                     !
!                                     ! --PF3---PF7---PF8--- !
! Command => _____      ! End Up Down       !
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF +-----+ F12---
! Help          End          Save          Owner Menu

```

2. Enter any character in the field preceding the appropriate owner and press Enter to link it to the user.
3. Press PF3 (End) twice to return to the User Definition and Profile screen.

Deleting a User/Owner Link

To delete the link

- Enter **D** in the one-character input field preceding the appropriate owner in the Owner List window. Press Enter.

Notes:

1. A user linked to the owner SYSDBA is authorized to access any object in the whole system.
2. Once entered, owners can be removed from Entire Operations 3.2.1 by calling the Natural program OW-DEL-P. The owner cannot be deleted if it is still linked to the following Entire Operations 3.2.1 objects: calendar, network, symbol table, event. Furthermore, an owner cannot be deleted if it is specified as a main owner for any user. If an owner is deleted, then all links to the user are removed.

Defining Sub-Administrators

Defining sub-administrators allows you to grant access rights which are not offered by the standard user maintenance facility of Entire Operations.

If the module US-EX--N delivered with Entire Operations 3.1.1 is not modified, it represents the standard user maintenance facility: Each user is allowed to read, write or delete user definitions, or is excluded from any user maintenance.

To define sub-administrators

- Modify the module US-EX--N contained in library SYSEOR. Using US-EX--N you can define any number of relationships between Entire Operations users.

US-EX--N requires the following parameters:

- **USER-1**
is the sub-administrator, that is, the user who defines other users. His rights over USER-2 are defined in the specification of a return code.
- **USER-2**
the user who is defined by USER-1.
- **RC (return code)**
defines the rights of USER-1 and the relationships between USER-1 and USER-2.

| Data Set Name | Contents |
|---------------|--|
| Y | USER-1 can display, change and delete USER-2. |
| R | USER-1 can display USER-2. |
| other values | USER-1 cannot display, change and delete USER-2. |

The above entries are made in the DISPLAY MODIFY DELETE section of the program US-EX--N.

In the ADD section of US-EX--N you specify if a sub-administrator is allowed to **add** other users. In this case, USER-1 must be set to "Y". Any entry other than "Y" signifies that USER-1 is not allowed to create further users. USER-2 is unused.

In the following you will find an example of US-EX--N which you can use to adapt the program to the needs at your site.

The program does not check whether USER-1 and USER-2 belong to the same owner. You can specify sub-administrators independently of their owners. If USER-1 and USER-2 are identical, there are no restrictions.

Example

```

* US-EX--N
*
* EOR USER Modification
* This exit is called by US-DEF-P and US-LI--P to give certain
* users limited rights on other users (specify Subadministrator)
* MODIFICATIONS:
* 09.01.97 (160039) User exit for defining subadministrators      GFR212
* -----
DEFINE DATA
PARAMETER
1 P-USER-1          (A08)      /* IN
1 P-USER-2          (A08)      /* IN
1 P-US-EX-RC        (A1)       /* OUT
*
*
END-DEFINE
* -----
RESET P-US-EX-RC
*
* Users modifies himself
*
IF P-USER-1 = P-USER-2
  P-US-EX-RC := 'Y'
  ESCAPE ROUTINE
END-IF
*
IF P-USER-1 NE ' '
  IF P-USER-2 NE ' '
    * *****
    * DISPLAY MODIFY DELETE - Section
    * *****
    P-US-EX-RC := 'Y' /* 'R' means DISPLAY only
                  /* 'Y' means DELETE MODIFY
* For all users we give back 'Y' as return code
*
* Example for subadministrator ABC
* IF P-USER-1 = 'ABC'
*   IF P-USER-2 = 'XYZ'
*     MOVE 'Y' TO P-US-EX-RC /* can modify or delete user XYZ
*   ELSE
*     MOVE 'R' TO P-US-EX-RC /* can display all others
*   END-IF
* END-IF
*
  ELSE
    * *****
    * ADD - Section
    * *****
    /* 'Y' means ADD allowed
    P-US-EX-RC := 'Y' /* anything else means ADD not allowed
*
* For all users we give back 'Y' as return code
*
* Example for subadministrator ABC
* IF P-USER-1 = 'ABC'
*   MOVE 'N' TO P-US-EX-RC /* can not add any user
* END-IF
  END-IF
END-IF
END

```

Entire Operations 3.2.1 Monitor

► To control the Entire Operations 3.2.1 Monitor and display status information for it

- Select the option Entire Operations 3.2.1 Monitor from the System Services Menu.

A window opens with information on the current status of the Monitor and input fields with which you can control the Monitor:

```

04.05.00          *** Entire Operations 3.2.1 ***          12:44:07
Owner REQUEST          System Services Menu          User ID GHH
-----
      Sys +-----+
      !
1 Use ! 04.05.00      Entire Operations Monitor      12:44:09      !
2 Ent !
3 Def !          Action ==> _          S Start          !
4 Ent !          C Shutdown          !
5 Mon !      OpSys Server ==> EOR Dev F-MC          !
6 Glo !          Task Name ==> E0101          !
7 Res !
8 Mai !          Status ==> Active          !
9 Int !      Last active at ==> 12:43:38 on 04.05.00          !
10 Spe !
      !          Wait Time ==> 40      Seconds          !
      !
      !      -----PF1---PF3-----PF9-----          !
      !          Help  End          Tasks          !
Command +-----+
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help          End          Menu

```

Special PF Key: Entire Operations 3.2.1 Monitor

| Key | Name | Function |
|-----|-------|---|
| PF9 | Tasks | Displays the Monitor Tasks list. See Display Monitor Task Status. |

Field Descriptions: Entire Operations 3.2.1 Monitor

Meaning of the fields:

| Field | Meaning | |
|----------------|--|--|
| Action | One-character command input field. Possible options: | |
| | S | Start Monitor according to the values specified in Wait Time and Monitor Date fields. |
| | C | Shut down Monitor. No data is lost. Note: If you are working in OS/390, you can also shut down the Monitor from the operator console by entering the command: SHUTDOWN SYSEOR |
| OpSys Server | Entire System Server internal task name under which Entire Operations 3.2.1 Monitor is running. | |
| Task Name | Name of the Monitor main task. | |
| Status | Protected field showing current status of the Entire Operations 3.2.1 Monitor. Status can be: ACTIVE, NOT ACTIVE, FAILED (abnormal termination) or a message, for example: Shutdown in progress, etc. | |
| Last active at | Date and time of last Monitor activity. | |
| Wait Time | Interval between Entire Operations 3.2.1 Monitor working cycles in seconds. You can modify the Monitor task wait times of the current monitor session individually in the 'Tasks' screen (accessible with PF9). When you start the Monitor, the value is taken from the Monitor Wait Time defined in Monitor Defaults (see field description). | |

Press PF3 (End) to return to the System Services Menu.

Display Monitor Task Status

If (in the Monitor Defaults) you have defined the Entire Operations 3.2.1 Monitor to use several (sub-)tasks, you can display the task status by pressing PF9 (Tasks). The following screen appears:

```

23.03.00          *** Entire Operations 3.2.1 ***          16:52:55
                  Monitor Tasks

-----
Cmd  Task          Status          Started          Active  Wait Time      Usage
-    -            -            -            -            -            -
_    E0101         Active          23.03 15:36      16:52:55      _40          2.2 %
_    E0102         Active          23.03 15:36      16:52:37      _30          1.5 %
_    E0103         Active          23.03 15:36      16:52:44      _20          4.2 %
_    E0104         Active          23.03 15:36      16:52:48      _30          3.7 %
-
-
-
-
-
-
-
-
-
-----

H Hold    R Release

Command => _____
Enter-PF1--PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          End                      Up      Down                      Menu

```

Line Commands: Monitor Tasks

| Cmd | Description |
|-----|-----------------|
| H | Hold a task. |
| R | Release a task. |

For a description of how to customize the monitor tasks, see the subsection Monitor Task Profile.

Column Headings: Monitor Tasks

Meaning of the column headings:

| Column | Meaning |
|-----------|--|
| Task | Name of Monitor (sub-)task. |
| Status | Status of (sub-)task. |
| Started | Time the task was started. |
| Active | Time of last activity. |
| Wait Time | <p>The active monitor task wait times.</p> <p>This value is modifiable. It can be defined individually for each monitor task.</p> <p>Values changed here are in effect for the current monitor session only.</p> <p>The value Global Monitor Wait Time from the Monitor Defaults will be used if no value is specified here. For details, see Monitor Defaults.</p> <p>The default wait time modification (for all monitor sessions) is described in Field Descriptions: Monitor Task Profile.</p> |
| Usage | Percentage of task activity within real time, calculated from task start or from the last task reconfiguration. |

Definition of Nodes

If you are using Entire Operations 3.2.1 in a multi-CPU environment, you must define node numbers for machines. Networks and jobs can thus be defined to run under Entire Operations 3.2.1 control on different nodes.

▶ To define nodes to Entire Operations 3.2.1

- Select the option Definition of Nodes from the System Services Menu.

The Operating System Server Table appears with a list of nodes which have already been defined:

| | | | | | | | | | |
|---|-----------------|-------------------------------|------------|------|------|-----|----------|------|-------|
| 24.04.00 | | *** Entire Operations *** | | | | | 14:07:32 | | |
| Owner EXAMPLE | | Operating System Server Table | | | | | | | |
| ----- | | | | | | | | | |
| Cmd | Server Name | Node | Op.Sys. | Wait | a.E. | VSE | SysId | Time | Valid |
| — | WKK Development | 29 | MVS/ESA | 5 | | | | | yes |
| — | BS2000/OSD | 31 | BS2000/OSD | 1 | | | | | yes |
| — | DOS-VSE | 33 | DOS/ESA | 20 | | | 1 | | yes |
| — | BS2 131 | 38 | BS2000/OSD | 5 | | | | | yes |
| — | E-M/C | 69 | MVS/ESA | 20 | | | | | yes |
| — | VSE PJ | 81 | DOS/ESA | 5 | | | | | yes |
| — | Test-101 | 101 | | 5 | | | | | yes |
| — | Test-102 | 102 | | 5 | | | | | yes |
| — | XCSYSEOR210 | 146 | MVS/ESA | 5 | | | | | yes |
| — | F-MC | 148 | MVS/ESA | | | | | | yes |
| — | DUEVSE | 193 | DOS/ESA | 5 | | | | | yes |
| — | Sagna SHost | 206 | MVS/ESA | 5 | | | | | yes |
| ----- | | | | | | | | | |
| D Delete M Modify S Specials | | | | | | | | | |
| | | | | | | | | | |
| Command => _____ | | | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | | | | | |
| Help Add End Save Up Down Menu | | | | | | | | | |

If no nodes are defined, the list is empty.

Note:

Node numbers from 1 to 255 represent mainframe (OS/390, VSE/ESA or BS2000/OSD) nodes. All other node numbers represent UNIX or Windows NT nodes.

Line Commands: Operating System Server Table

| Cmd | Description |
|-----|--|
| D | Delete node definition. |
| M | Modify node definition. |
| S | Specials (UNIX and Windows NT nodes only). Opens a window. |

Column Headings: Operating System Server Table

Meaning of the column headings:

| Column | Meaning | |
|---------------|--|-------------------------|
| Server Name | User-defined node name. | |
| Node | Entire System Server or UNIX node number. | |
| Op.Sys. | Operating system under which the node is running as received from the last SYSTEM-INFO call to Entire System Server or UNIX/Windows NT system information. | |
| Wait a.E. | Wait after error. Time in minutes to wait until next node access after a temporary error. | |
| VSE/ESA Sysid | The SYSID defined for a VSE/ESA node is added to the job card of jobs submitted on this node. | |
| Time Diff. | Difference between local time and GMT in hours if node is in a different time zone. | |
| Valid | Possible values: | |
| | yes | Node can be used. |
| | no | Node has been disabled. |

You can maintain node definitions using the available line commands and PF keys. The following subsections describe the functions you can perform.

Adding a Node Definition

To add a node definition

- Press PF2 (Add) from the Operating System Server Table.

A window opens in which you can enter the node definition:

| | | | | | | | | | | |
|---------------|-----------------|-------------------------------|------------|------|------|------|----------|------|------------------|-------|
| 24.04.00 | | *** Entire Operations *** | | | | | 14:07:32 | | | |
| Owner EXAMPLE | | Operating System Server Table | | | | | | | | |
| Cmd | Server Name | Node | Op.Sys. | Wait | a.E. | VSE | SysId | Time | Diff. | Valid |
| _ | WKK Development | 29 | MVS/ESA | 5 | | | | | | yes |
| _ | BS2000/OSD | 31 | BS2000/OSD | 1 | | | | | | yes |
| _ | DOS-VSE | 33 | DOS/ESA | 20 | | 1 | | | | yes |
| _ | BS2 131 | 38 | BS2000/OSD | 5 | | | | | | yes |
| _ | E-M/C | 69 | MVS/ESA | 20 | | | | | | yes |
| _ | VSE | +-----+ | | | | | | | | yes |
| _ | Tes ! | | | | | | | | ! | yes |
| _ | Tes ! | Node Definition | | | | | | | ! | yes |
| _ | XCE ! | | | | | | | | ! | yes |
| _ | F-M ! | Node Number ==> ____ | | | | | | | ! | yes |
| _ | DUE ! | Node Name ==> _____ | | | | | | | ! | yes |
| _ | Sag ! | Time Difference ==> _____ | | | | | | | ! | yes |
| | ! | VSE SysId ==> _ | | | | | | | ! | |
| ----- | ! | Wait after Error ==> 5__ min. | | | | | | | ! | ----- |
| D Delete | ! | Valid ==> _ | | | | | | | ! | |
| | ! | | | | | | | | ! | |
| Command | ! | PF1 Help | PF3 End | | | | | | ! | _____ |
| Enter-PF1 | +-----+ | | | | | | | | 0--PF11--PF12--- | |
| | Help | Add | End | Save | Up | Down | | | | Menu |

Field Descriptions: Node Definition

Meaning of the input fields:

| Field | Meaning | |
|------------------|---|--|
| Node Number | Numbers 1 to 255 : Entire System Server (mainframe) node number. Numbers 256 and above: Identifier for UNIX/Windows NT node (server). | |
| Node Name | Unique, user-defined node name. For node numbers 1 to 255 : enter a short description to help the user select an appropriate node for network or job run. For numbers 256 and above: enter the name of a UNIX or Windows NT node (server) as it appears in the SAT and Entire Broker definitions. This field is case-sensitive. | |
| Time Difference | Difference between local time and GMT in hours if node is in a different time zone. Input format: <i>xn</i> , where: | |
| | <i>x</i> | is a plus or minus sign (+ or -) and |
| | <i>n</i> | is any number from 0 to 12 . |
| VSE/ESA Sysid | This ID is added to the job cards of jobs submitted on this node. Range: 1 to 9 . | |
| Wait after Error | Time in minutes to wait until next node access after a temporary error. Default: 5 minutes. | |
| Valid | You can disable the use of a node. Possible values: | |
| | Y | Allow use of node. |
| | N | Disable use of node. |


Press Enter to save the node definition. Press PF3 (End) to return to the list of nodes. The new node should now appear in the list.

UNIX and Windows NT Node Definitions

UNIX and Windows NT nodes (i.e. NPR servers) must be defined in the following locations as well:

- SYSSATU / SATSRV (see the subsection SAT in Client/Server Environments in the SAT Installation Documentation.)
- Entire Broker parameters. You can omit these definitions for the Monitor node, if this node is accessed in local mode (see explanation of field Type).
- Entire System Server/UNIX or Windows NT initialization file **npr.ini** (see Step 4: Customize the NPR Server).

Modifying a Node Definition

 To modify a node definition

1. Enter **M** in the line command input field of the selected node in the Operating System Server Table and press Enter.

The Node Definition window opens with the current definition.

2. You can modify the definition by overtyping the current values.
3. Press Enter to save the modifications.
4. Press PF3 (End) to close the window and return to the Operating System Server Table.

Deleting a Node Definition

► To delete a node definition

1. Enter **D** in the line command field of the selected node in the Operating System Server Table and press Enter.

A window opens in which you can confirm deletion by entering the node number.

2. Enter the node number and press Enter to perform the deletion and close the window.

Special Node Definition - for UNIX and Windows NT only

This function is available for UNIX and Windows NT nodes only.

► To add a special node definition

- Enter **S** in the line command field of the selected node in the Operating System Server Table and press Enter.

The following window opens:

| | | | | | |
|---|-------------------------------|--|----------|-----------|----------------------------|
| 11.08.98 | *** Entire Operations *** | | | | 14:17:22 |
| Owner EXAMPLE | Operating System Server Table | | | | |
| ----- | ----- | | | | |
| Cmd | Server Name | Node | Op.Sys. | Wait a.E. | VSE SysId Time Diff. Valid |
| _ | G-Machine | 248 | MVS/ESA | 5 | yes |
| _ | npr_hppcc | 501 | HP-UX | 1 | yes |
| _ | npr_si8 | 502 | SINIX-P | 5 | yes |
| +-----+ | | | | | |
| ! | | | | | ! |
| ! | Node: Special Definitions | | | | ! |
| ! | | | | | ! |
| ! | Number ==> | 403 | WIN/NT | | ! |
| ! | Name ==> | npr_nt_pcaaa | | | ! |
| ! | | | | | ! |
| ! | Default Userid ==> | AAA_____ | | | ! |
| ! | Print Command ==> | type :f: >lpt3_____ | | | ! |
| - ! | Message Command ==> | wsendmail "-s:u:" "-f:s:" :r: :f:_____ | | | - ! |
| ! | | | | | ! |
| ! | PF1 Help | PF3 End | PF5 Save | | ! |
| +-----+ | | | | | |
| Command => _____ | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | |
| Help Add | | End | Save | Up | Down Menu |

Meaning of the input fields:

| Field | Meaning |
|-----------------|--|
| Default Userid | The (UNIX or Windows NT) user ID will be used by the monitor for actions which do not depend on a specific network or job. |
| Print Command | <p>The print command (UNIX or Windows NT) for sysout files on this node. :f: will be replaced by the file name.</p> <p>Example: lp -dxxxx :f:</p> |
| Message Command | <p>The message send command (Windows NT only). This command is used to send a user message out of Entire Operations.</p> <p>Replacements:</p> <ul style="list-style-type: none"> ● :s: sender name (optional) ● :u: subject (title of the message, optional) ● :r: recipient ● :f: name of the file containing the message <p>Entire Operations automatically makes these replacements.</p> <p>Example: wsendmail "-s:u:" "-f:s:" :r: :f: (parameters must be quoted if they may contain blanks)</p> |

Entire Operations 3.2.1 Defaults

The default settings defined here are valid for all Entire Operations 3.2.1 users at your installation.

► To enter the default setting facility

- Select the option Entire Operations 3.2.1 Defaults from the System Services Menu.

The Default Setting (1) screen appears with a table of all current default settings:

Note:

Each Entire Operations 3.2.1 Library has its own default settings. You may copy defaults from other library defaults by using PF9 (Copy).

| | | | | | |
|-------------------------|---------------------------------|--------|--|---------|----------------|
| 08.02.00 | *** Entire Operations 3.2.1 *** | | | | 14:02:50 |
| Owner REQUEST | Default Setting (1) | | | | Library EOR321 |
| ----- | | | | | |
| Entire Operations Files | DBID | FNR | Language Code ==> 2__ German | | |
| System File ==> | 9 | 12 | Date Format ==> G | | |
| Altern.System File ==> | ___9 | ___30 | Calendar Display ==> 1 | | |
| EOR Log ==> | 9 | 13 | | | |
| CON-NECT ==> | 21 | 16 | | | |
| Entire Output Mgmt ==> | | | Operating System Specials ==> _ (mark) | | |
| Fnat ==> | 9 | 240 | User Application in Menu ==> _ (mark) | | |
| Fuser ==> | 9 | 14 | Global User Exits ==> _ (mark) | | |
| Fsec ==> | 9 | 125 | | | |
| Library | EOR321__ | | Default Node ==> 148 | | |
| Retention Periods | | | User ID Definition ==> A | | |
| Active Networks ==> | ___2 Days | | File Password Prompting ==> N | | |
| Active Jobs ==> | ___4 Days | | Activation Escape ==> \$ | | |
| Active Conditions ==> | ___7 Days | | Submission Escape ==> \$ | | |
| Standard Log ==> | ___21 Days | | Logon Screen obligatory ==> N | | |
| Long Term Log ==> | _180 Days | | Stack 'RETURN' on Logoff ==> N | | |
| Command => | _____ | | | | |
| Enter-PF1--- | PF2--- | PF3--- | PF4--- | PF5--- | PF6--- |
| Enter-PF7--- | PF8--- | PF9--- | PF10--- | PF11--- | PF12--- |
| Help | End | Save | Down | Copy | OSpec |
| | | | | | Menu |

You can change any modifiable value by overtyping the current value.

The DBID and FNR fields in the upper part of the screen are for your information only and cannot be modified, except the definition of the Alternate System File. The parameters in these fields are the dynamic startup settings from the Natural Parameter Module and are used for a (re)start of the Monitor from the System Administrator Services.

Column Headings and Field Descriptions: Default Settings - 1

The following table gives a full description of the meaning of all column headings and fields:

| Column | Meaning |
|-------------------------------|---|
| Entire Operations 3.2.1 Files | Names of the files. |
| DBID | Database IDs of the Entire Operations 3.2.1 files on which Entire Operations 3.2.1 resides. |
| FNR | File numbers of the Natural files. |

| Field | Meaning | |
|-----------------------|---|--|
| System File | Entire Operations 3.2.1 system file. | |
| Alternate System File | Can be used for copying from another Entire Operations 3.2.1 system file of the same version. | |
| | Note: | Be sure that this is actually an Entire Operations 3.2.1 system file. |
| EOR Log | Separate file to which Entire Operations 3.2.1 logging information is written. | |
| Con-nect | Con-nect system file. | |
| Entire Output Mgmt | Entire Output Management system file. | |
| Fnat | Natural FNAT file. | |
| Fuser | Natural FUSER file. | |
| Library | Entire Operations 3.2.1 library. The Natural library of the Entire Operations 3.2.1 programs. The default library is SYSEOR. | |
| Language Code | Determines the Entire Operations 3.2.1 default language code. Possible values: | |
| | 1 | English |
| | 2 | German |
| Date Format | Date format in heading section of Entire Operations 3.2.1 screens. When specifying dates as parameters, the user must adhere to this format. Possible values: | |
| | A | American MM/DD/YY |
| | E | European DD/MM/YY |
| | G | German DD.MM.YY |
| | I | International YY-MM-DD |
| | 8 | 8 bytes, with 4 -digit year YYYYMMDD |
| | Note: | The internal dates contain the century. The two-digit year format is used for display purposes only. |

| | | |
|---------------------------|--|--|
| Calendar Display | Determines how your terminal displays Calendars. Possible values: | |
| | 1 | If terminal supports highlighting or colors. |
| | 2 | Neither is available. |
| Operating System Specials | Mark this field with any character and press Enter to open a selection window for operating system defaults. See the subsection Operating System Specific Defaults. | |
| User Application in Menu | Mark this field with any character and press Enter to create a user application definition in a separate window. See the subsection User Application in Main Menu. | |
| Global User Exits | Mark this field with any character and press Enter to display the Global User Exit definition screen. See the subsection Global User Exits. | |
| Default Node | Default Entire System Server node ID. This node is used for all internal calls to Entire System Server if no other node number is specified explicitly. | |
| Retention Periods: | | |
| Active Networks | Maximum length of time Entire Operations 3.2.1 keeps active networks in the active database. If the network is not completed within this time, a warning message is issued to a mailbox linked to the network. Default is 2 days. | |
| | Note: | Unfinished active jobs are deactivated after the Active Jobs retention period in any case. |
| Active Jobs | Maximum length of time Entire Operations 3.2.1 keeps the active jobs in the active database. Default is 2 days. | |
| Active Conditions | Maximum length of time Entire Operations 3.2.1 keeps the active conditions in the active database. Default is 2 days. | |
| Standard Log | Maximum length of time Entire Operations 3.2.1 keeps standard log data and mailbox entries (information messages). Default is 7 days. | |
| Long Term Log | Maximum length of time Entire Operations 3.2.1 keeps long term log data and mailbox entries (waiting for condition, symbol prompting). Long term data are Network and Job activation times with run numbers, as well as job accounting information. Default is 180 days. | |
| User ID Definition Mode | L First, the user must have logged on successfully to a node. Then a JCL or submit user ID may be defined. A (Default) All JCLs or submit user IDs may be defined. | |
| File Password Prompting | E If a file is password-protected, always prompt for a file password before editing. N (Default) Do not prompt for a password. Use the defined password, if necessary. | |
| Activation Escape | Global escape character to be used as prefix for Natural code lines and symbols to be replaced at activation time. Default: \$. You can define specific escape characters for each operating system by marking Operating System Specials. | |
| | Note: | Dynamic JCL might become invalid if this escape character is changed. |

| | | |
|--------------------------------|---|---|
| Submission Escape | Global escape character to precede symbols that are to be replaced at submission time. You can define specific escape characters for each operating system by marking Operating System Specials. Default: \$ (character recommended for BS2000/OSD: " ; for VSE/ESA: #). | |
| | Note: | Dynamic JCL might become invalid if this escape character is changed. |
| Logon Screen obligatory | If Y is specified here, the Entire Operations 3.2.1 Logon screen is always presented. This setting is recommended, if an external security system like RACF is installed, since a password must be entered. | |
| Stack 'RETURN' on Logoff | If Y is specified here, an Entire Operations 3.2.1 online session will be finished with the Natural command RETURN. Otherwise, it is not finished. Only with RETURN can control be given back to another Natural application. If T is specified here, the Natural session will be terminated with the Entire Operations session. | |

Special PF Keys

| Key | Name | Function |
|------|-------|--|
| PF9 | Copy | Copy Entire Operations defaults from another library to the current environment.. The origin defaults must reside on the same Entire Operations system file. Note: The current settings will be overwritten by this action. |
| PF10 | OSpec | Operating System Specific Defaults. |

Press PF8 (Down). The Default Settings (2) screen appears:

| | | |
|---|---------------------------------|----------------|
| 08.03.00 | *** Entire Operations 3.2.1 *** | 16:00:36 |
| Owner EXAMPLE | Default Setting (2) | Library EOR321 |
| ----- | | |
| Extraction of Schedules | ==> 1__ Days before Activation | |
| Activation before Earliest Start | ==> 240 min. | |
| Default Latest Start after Earliest Start | ==> +24 hours | |
| Default Deadline after Earliest Start | ==> +48 hours | |
| End of previous Production Date | ==> _____ | |
| Sub-Network Activation Mode | ==> S | |
| Sysout Lines Limit ==> _____ | Run Number Limit ==> 9999_ | |
| Rewrite prompted Symbols to Master Symbol Table | ==> N (Y/N) | |
| Default for 'Use Time in Schedule' | ==> N (Y/N) | |
| Copy Sysout File before passing it to NOM | ==> N (Y/N) | |
| Generate Header in submitted JCL | ==> Y (Y/N) | |
| Log Symbol Values in submitted JCL | ==> Y (Y/N) | |
| Automatic cleanup for new day / monitor start | ==> Y (Y/N) | |
| | at | ==> _____ |
| Command => _____ | | |
| Enter-PF1---- | PF2---- | PF3---- |
| Help | End | Save |
| | Up | Menu |

Field Descriptions: Default Settings - 2

| Field | Meaning |
|---|--|
| Extraction of Schedules | The current network schedules are extracted once a day to prepare scheduled network activation. The extraction can be done several days in advance to permit earlier symbol prompting, etc. Enter the number of days. Default: 1 day (=current day). |
| Activation before Earliest Start | The activation creates an executable copy of the Job Network definition. This parameter allows you to activate the Network before the earliest time the Network is actually started. Default: 0 minutes. |
| Default latest Start after Earliest Start | This parameter applies if no explicit latest start time was specified on the job level. The time (in hours) specified here is added to the (computed) earliest start time. Default: 24 hours. |
| Default Deadline after Earliest Start | This parameter applies if no explicit deadline time was specified on the job level. The time (in hours) specified here is added to the (computed) earliest start time. Default: 48 hours. |
| End of previous Production Date | Time at which previous production day ends logically. This time influences the following: <ul style="list-style-type: none"> Condition references: The reference PDA for input condition references the production date, not the current calendar date. Symbol replacement: The built-in symbol P-DATE provides the production date in the format YYYYMMDD. |
| Sub-Network Activation Mode | A (or blank) at activation time of the caller. S at submission time of the caller. Default: A Please see Section System Overview of the Entire Operations User's Guide for a detailed description of this feature. |
| Sysout Lines Limit | If a job has more sysout lines than allowed here, end-of-job checking will be interrupted with an error status. Default: 0 (no limit) OS/390, JES2 The value is divided by 1000 and inserted with a "/*LINES" command. If the division result is 0, the value is set to 1 . BS2000/OSD Limit for the sysout collection. Other No meaning. |
| Run Number Limit | The maximum run number which can be assigned to a network or job activation. The maximum must not exceed 99999. Default: If 0 is specified, the limit will be 99999. |
| Rewrite prompted Symbols to Master Symbol Table | If you enter Y here, prompted symbols are updated in the master symbol table, in addition to the currently active symbol table. This keeps the last prompted value for the next prompting. |
| Default for 'Use Time in Schedule' | Enter Y to use the time frames of the schedule definition. Enter N to use the start time entered on this screen. Network and job time frames are not honoured. |

| | | |
|---|--|---|
| Copy Sysout File before passing it to NOM | <p>This flag applies to BS2000/OSD only.</p> <p>N The original sysout file is passed to the Entire Output Management API.</p> <p>Y The sysout file is copied physically and the copy will be passed to the Entire Output Management API. This doubles the necessary disk storage for sysout files created by Entire Operations.</p> <p>(NOM: Entire Output Management)</p> | |
| Generate Header in submitted JCL | Enter Y to generate header. Enter N not to generate header. | |
| Log Symbol Values in submitted JCL | Enter Y to log symbol values. Enter N not to log values. | |
| Automatic cleanup for new day / monitor start | If you enter N here, no automatic cleanup of the active database and log data is performed. Default: Y . | |
| at | Enter the time to perform daily automatic cleanup. | |
| | <p>Note:</p> | To avoid an overflow of the active database, the cleanup must be triggered at least once a day. |

Operating System Specific Defaults

You can define some system-wide defaults, depending on the operating system running at your site. Some of the values can be overridden at the job or job network level.

If you mark the field Operating System Specials on the Default Setting (1) screen and press Enter, a window opens prompting you to select an operating system:

```

11.08.98          *** Entire Operations ***          15:15:43
Owner EXAMPLE          Default Setting (1)          Library SYSEOR210
-----
Entire Operations Files  DBID FNR          Language Code ==> 2__ German
System File ==>          Date Format ==> G
Alternate System File ==> __9 _89          Calendar Display ==> 1
SYSEOR Log ==> 9 36
CON-NECT ==> 21 16
Fnat ==>          Operating System Specials ==> x (mark)
Fuser ==> 9 161    User Application in Menu ==> _ (mark)
Library ==> SYSEOR210__          Global User Exits ==> _ (mark)

+-----+ ==> 146
!
Retention Periods ! Please select the Operating System !
Active Network ! !
Active Job ! _ BS2000/OSD ! => $
Active Condition ! _ MVS, MVS/XA, MVS/ESA, Facom ! => $
Standard Lo ! _ VSE ! => N
Long Term Lo ! _ Unix ! => N
Command => _____ ! Windows NT ! _____
Enter-PF1---PF2---PF3 +-----+ -PF11---PF12---
Help          End          Save          Down Copy OSpec          Menu

```

Mark the appropriate operating system and press Enter.

A screen appears with parameters for the operating system selected.

The subsections which follow explain how to continue:

- If you marked OS/390, read the subsection Defaults for OS/390, OS/390/XA and OS/390/ESA.
- If you marked BS2000/OSD, read the subsection Defaults for BS2000/OSD.
- If you marked VSE/ESA, read the subsection Defaults for VSE and VSE/ESA.
- If you marked UNIX, read the subsection Defaults for UNIX. Some specials for UNIX nodes can be defined in the Operating System Server Table (see the subsection Special Node Definition).
- If you marked Windows NT, read the subsection Defaults for Windows NT.

Defaults for OS/390

If you select MVS (OS/390), etc. from the window, the following screen appears:


```

08.02.00          *** Entire Operations 3.2.1 ***          13:31:19
Owner REQUEST          Defaults for MVS, MVS/XA
-----
End-of-Job Checking
  These values apply, if nothing is specified for the End-of-Job Checking:
  Highest    Condition Code accepted as ok ==> C 0008
  = highest Severity Code (see field help)
  Highest    User      Code accepted as ok ==> U ____
  IEF201I 'Terminated because of condition codes' accepted as ok ==> N

End-of-Job Actions
  Spool Class to be set after Job Completion ==> _

Job Card
  These values will be inserted into the job card, if missing:
  MSGCLASS ==> _____ MSGLEVEL ==> _____

Escapes: Activation ==> § Submission ==> $

Note: Modifications become effective at the next monitor startup.

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      End      Save                               Menu

```

Note:

Any modifications made here take effect at the next working cycle of the Monitor.

Field Descriptions: Defaults for OS/390

Meaning of the input fields:

| Field | Meaning |
|---|---|
| End-of-Job Checking | |
| These three values are used for checking completed jobs if no definition has been made on the job level : | |
| Highest Condition Code | The value entered here is used for default checks of all accepted as ok step results for which no dedicated check has been defined. If this result is higher than the value defined here, the job is treated as NOT OK. |
| = highest Severity Code | This value is the maximum allowed severity code for messages matching the Global Message Code Table. If a message is defined there without a severity code, a match always means job NOT OK. |
| Highest User Code accepted as ok | The value entered here will be used for default checks of all step results for which no check was defined. If such a step result is higher than the value defined here, the job will be treated as not ok. If this field is left blank, or if it contains "NONE", all codes will be treated as not ok. |
| IEF201I 'Terminated because of condition codes' accepted as ok | <p>If Y is entered here, the occurrence of the message EF201I ... - JOB TERMINATED BECAUSE OF CONDITION CODES does not cause the job to be set to 'not ok' automatically.</p> <p>All other implicit or explicit end-of-job checks are not affected by this setting.</p> <p>This is a system-wide setting. For more information, see Section End-of-Job Checking and Actions of the Entire Operations User's Guide.</p> <p>The default is N.</p> |

| | | |
|--|---|---|
| End-of-Job Actions: | | |
| Spool Class to be set after Job Completion | <p>You can specify that the spool class of a job is to be modified after completion. This applies to all jobs. Job-specific definitions override this default.</p> <p>When you enter a valid spool class in this field, Entire Output Management knows exactly where to find all information necessary for the output files to be processed.</p> <p>If you leave this field blank, the job output class remains unchanged. For more information, see Section End-of-Job Checking and Actions, subsection Passing Files to Entire Output Management in the Entire Operations 3.2.1 User’s Guide.</p> | |
| Job Card: | | |
| MSGCLASS MSGLEVEL | You can complete or modify the job card for any job by adding values for MSGCLASS and MSGLEVEL here. The values specified here are inserted, if not already on the job card; | |
| Escapes: | | |
| Activation | Activation escape character. This escape character is prefix for Natural code lines and symbols to be replaced at activation time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |
| Submission | Submission escape character. This escape character is prefix for symbols to be replaced at submission time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |

Defaults for BS2000/OSD

Screen 1

If you select BS2000/OSD from the window, the following screen appears (this is the first screen in a series of two):

```

24.04.00          *** Entire Operations ***          17:15:21
Owner EXAMPLE          Defaults for BS2000/OSD (1)
-----
End-of-Job Checking
  Highest Severity Code accepted as ok          ==> 0004

Sysout Handling
  These values will be used as defaults for new job definitions:
  Make the Sysout Collection File shareable      ==> N  (Y/N)
  Append the Syslst File(s) to the Sysout File ==> Y  (Y/N)

Monitor Job Variables
  Remove internal Monitor Job Variables after End-of-Job Handling ==> Y (Y/N)

Escapes: Activation ==> $ Submission ==> "

Note: Modifications become effective at the next monitor startup.
Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      End      Save      Down      Menu

```

Entire Operations 3.2.1 creates its own Sysout Collection file for each BS2000/OSD job running under Entire Operations 3.2.1 control.

Field Descriptions - Screen 1: Defaults for BS2000/OSD

| Field | Meaning | |
|--|---|---|
| End-of-Job Checking: | | |
| Highest Severity Code accepted as ok | This value is the maximum allowed severity code for messages matching the default message code table. If a message is defined without a severity code, a match always means "job not OK". | |
| Sysout Handling: | | |
| Make the Sysout Collection File shareable | Enter Y , if the Entire Operations 3.2.1 Monitor should make these files shareable ; enter N , if not. | |
| Append the Syslst File(s) to the Sysout File | Enter Y , if the SYSLST files created by a job should be appended to the Entire Operations 3.2.1 Sysout Collection file; enter N , if not. | |
| Monitor Job Variables: | | |
| Remove internal Monitor Job Variables | Enter Y to remove internal Monitor job variables immediately after end-of-job checking. This creates fewer catalog entries. Enter N to remove variables during standard job deactivation. | |
| | Note: | This setting affects only Monitor job variables which were internally created by the Entire Operations 3.2.1 Monitor. |
| Escapes: | | |
| Activation | Activation escape character. This escape character is prefix for Natural code lines and symbols to be replaced at activation time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |
| Submission | Submission escape character. This escape character is prefix for symbols to be replaced at submission time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |

These settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Screen 2: BS2000 Default Message Code Table

You can set the defaults for BS2000/OSD on two screens. You invoke the second one by pressing PF8. This second screen contains BS2000/OSD message codes which force a "job not OK" by default:

```

13.08.98          *** Entire Operations 3.2.1 ***          14:29:08
Owner EXAMPLE          Defaults for BS2000/OSD (2)
-----

BS2000/OSD Message Codes, which force 'job not ok' by default:

      IDA0N45   IDA0N47   IDA0N48   IDA0N51   IDA0N56
      EXC0733   EXC0734   EXC0735   EXC0736   EXC0737
      EXC0738   EXC0772   CMD0005   JVS04A1   DMS05A9
      DMS0936   BLS0520   SSM2052   _____

If you want to restore the default settings, please use PF4.


nter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          End   Resto Save          Up          Menu

```

Field Descriptions - Screen 2

| Field | Content |
|-------|---------|
|-------|---------|

| | | |
|-----------------------------|---|--|
| BS2000/OSD Message Codes | If one of these message codes appears in any BS2000/OSD job sysout, the job is treated as "not OK" without any special definition on job level: | |
| | IDA0N45 | Dump desired? Reply (Y =user/area dump); Y , System = system dump; N = no) |
| | IDA0N47 | Dump prohibited by /MODIFY-TEST-OPTIONS command |
| | IDA0N48 | Task/system settings prohibit dump |
| | IDA0N51 | Program interrupt at location '(&00)' |
| | IDA0N56 | Current system dump suppressed (duplicate) |
| | EXC0733 | Unrecoverable termination error: task with TSN '(&00)' pended. Continue system run and take dump after shutdown |
| | EXC0734 | (message not defined) |
| | EXC0735 | (message not defined) |
| | EXC0736 | Abnormal task termination. Error code '(&00)' : / Help-MSG (&00) |
| | EXC0737 | (message not defined) |
| | EXC0738 | (message not defined) |
| | EXC0772 | (message not defined) |
| | CMD0005 | Operation name in input string not recognizable or missing |
| | CMD0205 | Error in preceding command or program and procedure step termination: commands will be ignored until /SET-JOB-STEP or /LOGOFF or /EXIT-JOB is recognized |
| | JVS04A1 | Syntax error in JV command. Correct command |
| | DMS05A9 | Second file name in command for COPY invalid or does not exist. Correct command |
| | DMS0936 | (message not defined) |
| | BLS0520 | Access error on program library. PLAM-AMCB error code '(&00)' and system error code '(&01)' In system mode /HELP-MSG PLA (&00) |
| | SSM2052 | Procedure file '(&00)' cannot be opened. DMS error code '(&01)'. Command terminated. DMS error: /HELP-MSG-INFORMATION DMS(&01) |

The message codes listed above are the default settings which are in effect after the installation of Entire Operations 3.2.1. They can be **restored** at any time. For further information, see the following paragraph.

Please consider, when this table is modified, that faulty jobs may no longer be set to the status 'not ok'.

Special PF Key: Restore Default Set of Message Codes

| Key | Name | Function |
|-----|------|--|
| PF4 | REST | Restores a default set of message codes supplied by Entire Operations. Before you change anything with this key, please read the BS2000/OSD documentation on the meaning of the message codes. |

Note:

The BS2000/OSD message code table can be completely empty. None of the mentioned BS2000/OSD message codes would be checked by default in this case.

Defaults for VSE/ESA

If you select VSE/ESA from the window, the following screen appears:

| | | |
|--|--|----------|
| 24.04.00 | *** Entire Operations *** | 17:23:40 |
| Owner EXAMPLE | Defaults for VSE/ESA | |
| ----- | | |
| End-of-Job Checking | | |
| These values apply, if nothing is specified for the End-of-Job Checking: | | |
| Highest | Condition Code accepted as ok ==> C 0008 | |
| = highest Severity | Code (see field help) | |
| Highest | User Code accepted as ok ==> U 0000 | |
| End-of-Job Actions | | |
| Spool Class to be set after Job Completion ==> _ | | |
| JCL Location VSE/ESA | | |
| Default Member Type ==> J_____ | | |
| Escapes: Activation ==> § Submission ==> # | | |
| Note: Modifications become effective at the next monitor startup. | | |
| Command => _____ | | |
| Enter-PF1--- | PF2--- | PF3--- |
| Help | End | Save |
| PF4--- | PF5--- | PF6--- |
| | | |
| PF7--- | PF8--- | PF9--- |
| | | |
| PF10--- | PF11--- | PF12--- |
| | | Menu |

Field Descriptions: Defaults for VSE/ESA

| Field | Meaning |
|---|---------|
| End-of-Job Checking | |
| These three values are used for checking completed jobs if no definition has been made on the job level : | |

| | | |
|--|---|---|
| Highest Condition Code | The value entered here is used for default checks of all step results for which no dedicated check has been defined. If this result is higher than the value defined here, the job is treated as NOT OK. | |
| = highest Severity Code | This value is the maximum allowed severity code for messages matching the Global Message Code Table. If a message is defined there without a severity code, a match always means job NOT OK. | |
| Highest User Code | As for Highest Condition Code, above. | |
| End-of-Job Actions: | | |
| Spool Class to be set after Job Completion ? | <p>You can specify that the spool class of a job is to be modified after completion. This applies to all jobs. Job-specific definitions override this default.</p> <p>When you enter a valid spool class in this field, Entire Output Management knows exactly where to find all information necessary for the output files to be processed.</p> <p>If you leave this field blank, the job output class remains unchanged. For more information, see the subsection Passing Files to Entire Output Management in Section End-of-Job Checking and Actions of the Entire Operations 3.2.1 User’s Guide.</p> | |
| JCL Location VSE/ESA: | | |
| Default Member Type | The default member type is inserted into JCL definitions, if nothing else is specified. | |
| Escapes: | | |
| Activation | Activation escape character. This escape character is prefix for Natural code lines and symbols to be replaced at activation time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |
| Submission | Submission escape character. This escape character is prefix for symbols to be replaced at submission time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |

These settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Defaults for UNIX

If you select UNIX from the window, the following screen appears:

```

12.08.98                *** Entire Operations 3.2.1 ***                08:43:27
Owner EXAMPLE           Defaults for Unix
-----
End-of-Job Checking
  Highest Exit Code accepted as ok  ==> 0_____

Escapes: Activation ==> § Submission ==> ^

Note: Modifications become effective at the next monitor startup.

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           End           Save                               Menu

```

Field Descriptions: Defaults for UNIX

| Field | Meaning | |
|----------------------------------|--|---|
| End-of-Job Checking | | |
| Highest Exit Code accepted as ok | The value entered here is the maximum exit code which is accepted as OK. | |
| Escapes: | | |
| Activation | Activation escape character. This escape character is prefix for Natural code lines and symbols to be replaced at activation time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |
| Submission | Submission escape character. This escape character is prefix for symbols to be replaced at submission time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |

These settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

Defaults for Windows NT

If you select Windows NT from the window, the following screen appears:

| | | |
|---|---------------------------|---------------------|
| 12.08.98 | *** Entire Operations *** | 08:48:52 |
| Owner EXAMPLE | Defaults for Windows NT | |
| ----- | | |
| End-of-Job Checking | | |
| Highest Exit Code accepted as ok ==> 0_____ | | |
| Escapes: Activation ==> § Submission ==> ^ | | |
| | | |
| Note: Modifications become effective at the next monitor startup. | | |
| Command => _____ | | |
| Enter-PF1--- | PF2---PF3--- | PF4---PF5--- |
| Help | End | Save |
| | | PF10--PF11--PF12--- |
| | | Menu |

Field Descriptions: Defaults for Windows NT

| Field | Meaning | |
|----------------------------------|--|---|
| End-of-Job Checking | | |
| Highest Exit Code accepted as ok | The value entered here is the maximum exit code which is accepted as OK. | |
| Escapes: | | |
| Activation | Activation escape character. This escape character is prefix for Natural code lines and symbols to be replaced at activation time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |
| Submission | Submission escape character. This escape character is prefix for symbols to be replaced at submission time. | |
| | Note: | Existing Dynamic JCL might become invalid after changing this escape. |

These settings become effective after the next Monitor startup and are then used as defaults for new job definitions.

User Application in Main Menu

This function allows you to invoke a user-defined Natural application from the Entire Operations 3.2.1 Main Menu.

If you mark the User Application in Menu field on the Default Setting (1) screen and press Enter, the following screen appears:

| | | |
|---|---------------------------|----------|
| 24.04.00 | *** Entire Operations *** | 17:35:18 |
| User Application in Main Menu | | |
| ----- | | |
| Application ==> SYSMAIN_ | | |
| Menu Text ==> sysmain_____ | | |
| <p>The application must be callable from the Entire Operations environment. By default, the program MENU will be invoked. The application must return to Entire Operations with the command RETURN.</p> | | |
| <p>Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---</p> <p>Help End Save</p> | | |

Field Descriptions: User Application in Main Menu

| Field | Meaning |
|-------------|--|
| Application | Enter the name of the Natural application. It must be accessible from the Entire Operations 3.2.1 environment and a program MENU must exist. The application must be defined in Natural Security and must pass back control with RETURN. |
| Menu Text | The text you enter here will appear on the Entire Operations 3.2.1 Main Menu beneath the heading Applications on the right-hand side of the screen. |

Global User Exits

You can specify a user exit to be submitted for every JCL card submitted by Entire Operations 3.2.1.

Mark the field labelled Global User Exits in the Default Setting (1) screen and press Enter to display the following screen:

| | | |
|--|---------------------------|--------------|
| 05.02.96 | *** Entire Operations *** | 11:02:06 |
| Owner EXAMPLE | Global User Exits | |
| ----- | | |
| Job Activation (optional) | | |
| Execution: For each job activation. Possibility to modify specific fields which describe the JCL location. | | |
| Job Activation Userexit Name ==> ZJCLX1-A | | |
| Symbol Modification (optional) | | |
| Symbol Modification Userexit Name ==> ZSYM1--N | | |
| Job Submission (optional) | | |
| Execution: For each JCL line to be submitted by Entire Operations. | | |
| Submit Userexit Type ==> _ Blank none, A Assembler, N Natural | | |
| Submit Userexit Name ==> _____ | | |
| Please note the possible overhead being created by the user exit usage. | | |
| Command => _____ | | |
| Enter-PF1--- | PF2---PF3--- | PF4---PF5--- |
| Help | End | Save |
| | | PF6---PF7--- |
| | | PF8---PF9--- |
| | | PF10--PF11-- |
| | | PF12--- |
| | | Menu |

Details about entering data in the fields on this screen is contained in the following two subsections.

Job Activation

Activation JCL User Exit Name

If you enter a user exit here, it is used for each job activation performed by Entire Operations 3.2.1. The exit must be coded as a Natural subprogram.

The parameter list is called AJCLX1-A and can be found on the Entire Operations 3.2.1 library.

To include it in the exit, code:

```
DEFINE DATA PARAMETER USING AJCLX1-A
```

This exit can be used to modify almost all fields that describe the JCL location.

Notes:

1. The modifications are effective for the current run only: the job's master definition is not affected.
2. P-RC must be set to 1 to make the modifications valid.
3. **Do not** use END TRANSACTION in this exit; Entire Operations 3.2.1 performs its own END TRANSACTION after returning from this exit.

Symbol Modification

If you enter the name ZSYM1--N here, this exit will be invoked for each network that does not have its own symbol prompting user routine. ZSYM1--N must reside in the SYSEOR library and use the NOPSYP-A parameter list.

To include it in the exit, code:

```
DEFINE DATA PARAMETER USING NOPSYP-A
```

Notes:

1. Once you have defined the Global Symbol Modification User Exit, you can prevent one or more networks from using it by defining a dummy symbol prompting user routine for the network(s). For more information, see Section Symbols in the Entire Operations User's Guide.
2. Do not code END TRANSACTION in ZSYM1--N because Entire Operations 3.2.1 performs its own END TRANSACTION after returning from this exit.

Job Submission Exit

If specified, this exit is used for each JCL line to be submitted by Entire Operations 3.2.1.

Submit User Exit Type

Enter **A** for Assembler or **N** for Natural.

- **Assembler**
If you specify Assembler, the user exit must be linked to the Entire Operations 3.2.1 batch Natural for the Monitor;
- **Natural**
If you specify Natural, it is recommended that the user exit exist as a cataloged subprogram in a STEPLIB assigned to library SYSEOR or in SYSEOR itself.

Submit User Exit Name

The following is the parameter list for the submission user exit:

| Parameter | Natural | Assembler | Meaning |
|---------------|---------|-----------|---------------------------|
| P-OWNER | (A10) | CL10 | Owner of the job network. |
| P-NETWORK | (A10) | CL10 | Job network. |
| P-JOB | (A10) | CL10 | Name of the job. |
| P-LINE | (P7) | PL4 | Current line. |
| P-CARD | (A80) | CL80 | Card image. |
| P-INSERT-CARD | (A80) | CL80 | Insert card image. |

- If the parameter P-CARD is blank on return, the card will be skipped.
- If the parameter P-INSERT-CARD is not empty, it is inserted after P-CARD.

Monitor Defaults

You can define defaults for the Entire Operations 3.2.1 Monitor. The defaults must be set before the first start of the Monitor.

To set defaults for the Monitor

- Select option **5** Monitor Defaults from the System Services Menu.

The Monitor Defaults screen appears with a table of all current defaults:

| | | | | | |
|---|----------|---------------------------------|--|----------|---|
| 23.03.00 | | *** Entire Operations 3.2.1 *** | | 16:25:42 | |
| Owner REQUEST | | Monitor Defaults | | | |
| ----- | | | | | |
| EOR Monitor Files | DBID | FNR | Monitor Node ==> 146 | | |
| EOR System File 1 ==> | 9 | 12 | Type ==> _ | | |
| EOR System File 2 ==> | 9 | 13 | Monitor Subtask Userid ==> _____ | | |
| EOR Fnat ==> | 9 | 240 | Monitor Subtask Prefix ==> E01 | | |
| EOR Fuser ==> | 9 | 14 | | | |
| EOR Fsec ==> | 9 | 125 | Global Monitor Wait Time ==> ____30 sec. | | |
| EOR Library ==> | EOR321__ | | Log Monitor Activity ==> N | | |
| CON-NECT ==> | | 177 | 12 | | |
| Entire Output Mgmt ==> | | 9 | 246 | | |
| Monitor JCL ==> | | _____ | | | |
| OS Spool Class ==> | | X | Submit Security User Type ==> | | U |
| Command ==> | | _____ | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | |
| Help | | End | | Save | |
| | | | | Tasks | |
| | | | | Menu | |

The Database ID (DBID) and File numbers (FNR) of Entire Operations 3.2.1 files at the top left of the screen are for your information and cannot be modified.

Special PF Key: Monitor Defaults

| Key | Name | Function |
|-----|-------|--------------------------------|
| PF9 | Tasks | Define a Monitor task profile. |

Field Descriptions: Monitor Defaults

The following table explains the modifiable fields on this screen:

| Field | Meaning |
|--------------|--|
| Monitor Node | The Entire Operations 3.2.1 Monitor runs under this node. The node can be the same as the default Entire System Server node. |

| | | |
|--------------------------|--|---|
| Type | Monitor node type. This field has a meaning for UNIX nodes only . | |
| | L | The Monitor node is local. It must reside on the same machine as the Entire Operations 3.2.1 Monitor. |
| | Note: | In this case, your Natural executable must be authorized to access the operating system objects used by Entire Operations 3.2.1. If objects with different UNIX users and groups must be accessed, you must issue the following commands: <ul style="list-style-type: none"> ● chdir \$NATDIR/\$NATVERS/bin ● chown root natural ● chmod +s natural |
| | other | The Monitor node can reside on any machine which can be accessed via Entire Net-Work. |
| Monitor Subtask User ID | This user ID is used for Monitor actions which are not dependent on any job. Default: SYSEORnnn01, where <i>nnn</i> is the Monitor node. This field is not used, if the Monitor node is a UNIX node. | |
| Monitor Subtask Prefix | This prefix is used for the internal generation of Monitor subtask names. Default: SYSEOR. | |
| EOR Library | Natural library containing the Entire Operations 3.2.1 modules. Default name is SYSEOR. | |
| Global Monitor Wait Time | <p>The Wait Time between two monitor cycles. This parameter sets the monitor frequency.</p> <p>Example:</p> <p>30 The monitor will wait 30 seconds until it will begin the next cycle.</p> <p>Note:</p> <p>This value is a default for all monitor tasks. An individual wait time can be defined for each task. These individual wait times can also be modified while the monitor tasks are running, and for the current monitor session only. For details, see Field Descriptions: Monitor Task Profile.</p> | |
| Log Monitor Activity | If you enter Y here, additional information about Monitor activity, in particular about the activities of each Monitor task, is written to the Log periodically. Default: N . | |
| | Note: | The above option increases the amount of Log data. |
| Con-nect | This field is read-only. | |
| Entire Output Mgmt | This field is read-only. | |
| Monitor JCL | <p>(For BS2000/OSD only.) The name of a BS2000/OSD Enter job to start the Monitor.</p> <p>(For UNIX only.) The full path name of the shell script to be used for starting the Monitor. Usually the script generated during the installation procedure should be used for this purpose. For further information, see the subsection Natural Parameter Module Creation.in Section Installation and Customization on UNIX Platforms.</p> | |

| | | |
|---------------------------|--|---|
| OS Spool Class | (For OS/390, etc. only.) The Spool Class to be used by the Monitor for all background printouts. | |
| Submit Security User Type | (For OS/390 systems with external security system such as RACF only.) The Monitor performs a Entire System Server logon to the submit user ID. This parameter allows you to specify which user ID is to be taken. Possible values: | |
| | M | Default. User ID of Entire Operations 3.2.1 Monitor. If the field Monitor Subtask User ID (above) is left blank and M is specified here, then SYSEORnnn1 is taken as submit user ID. |
| | O | Network owner. |
| | U | User ID of the person who defined the job or who made the last modification (even in the active queue). |
| | A | Submit User ID must be the same as for the network owner. |
| | B | Submit User ID must be the same as for the last modifying user. |
| | Note: | With M , no specific security profiles are possible for the submitted jobs. |

Monitor Task Profile

You can divide the Monitor into several tasks in order to:

- perform some Monitor actions in parallel,
- execute Natural jobs (NAT-type jobs) asynchronously.

If you want to run the Entire Operations 3.2.1 Monitor in several tasks, you must define how the Monitor functions are to be distributed on the different Monitor tasks.

To do this

- Press PF9 (Tasks) on the Monitor Defaults screen.

The following screen appears with a list of all Monitor functions:

| | | | | | | | | | | | |
|---|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| 23.03.00 | *** Entire Operations 3.2.1 *** | | | | | | | | | | 16:14:04 |
| Monitor Task Profile | | | | | | | | | | | |
| Task # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Schedule Extraction | X | — | — | — | — | — | — | — | — | — | |
| Activation | — | X | — | — | — | — | — | — | — | — | |
| JCL Loading | X | — | — | — | — | — | — | — | — | — | |
| Prerequisite Check | — | — | — | X | — | — | — | — | — | — | |
| Submission | — | — | X | — | — | — | — | — | — | — | |
| Submission, SAP R/3 | X | — | — | — | — | — | — | — | — | — | |
| Job Execution | — | — | X | — | — | — | — | — | — | — | |
| EOJ Check | — | — | X | — | — | — | — | — | — | — | |
| EOJ Actions | X | — | — | — | — | — | — | — | — | — | |
| Message Sending | X | — | — | — | — | — | — | — | — | — | |
| Special Actions | X | — | — | — | — | — | — | — | — | — | |
| Cleanup | — | — | X | — | — | — | — | — | — | — | |
| Deactivation | — | — | X | — | — | — | — | — | — | — | |
| Task wait time (sec.) | _40 | ___ | _20 | ___ | ___ | ___ | ___ | ___ | ___ | ___ | global 30 |
| Max. Number of Natural Tasks ==> __3 | | | | | | | | | | | |
| Max. Idle Time of a Natural Task ==> _30 min. | | | | | | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | | | | | | | | | | |
| Help End Save Menu | | | | | | | | | | | |

You must mark one and only one column (task) in each row. The default for all functions is the main task, Task 1.

Field Descriptions: Monitor Task Profile

| Field | Meaning |
|----------------------------------|--|
| Max. Number of Natural Tasks | This is the maximum number of tasks for the parallel execution of asynchronous Natural programs (NAT-type). Increase this number if you want to run longer Natural programs in parallel. Default = 0: (Natural programs are executed synchronously by Task 1). |
| Max. Idle Time of a Natural Task | A Natural task can remain active for some time after it has performed the last Natural program in its queue. This can be useful if there are many Natural programs with short execution times, and it eliminates some overhead for the starting and stopping of (sub)tasks. Default = 0: (A Natural task terminates immediately if its queue is empty). |
| Task Wait Time (sec.) | <p>The Wait Time between two monitor task cycles.</p> <p>This value can be defined individually for each monitor task.</p> <p>The value Global Monitor Wait Time from the Monitor Defaults will be used if no value is specified here.</p> <p>Note:</p> <p>Here you modify the default settings only. If you want to modify the settings of the current monitor session, you must do this under Entire Operations Monitor / Tasks.</p> |
| global | The global monitor wait time. Please see here for more information. |

Main Task, Task 1

Task 1 is a general-purpose task and must always exist. It performs all functions for which no other task is defined. It is the only task which can start other tasks.

Other General-Purpose Tasks, 2-50

The other tasks in the top row (numbers 2 to 50) are called general purpose tasks. This means that each of them is capable of performing all functions. These tasks are all started at Monitor startup time. Each function can and must be performed by exactly one task.

Do not define too many Monitor tasks. If Task 1 is not sufficient for your needs, then the figure on the previous page offers an example of a possible alternative. You should not exceed 2 to 4 tasks, since resources for administration of the individual tasks must always be considered.

Natural Tasks, 51-99

Natural programs (NAT-type jobs; numbers 51 to 99) can be performed asynchronously in their own dedicated tasks. In the field **Max. Number of Natural Tasks**, you can specify how many of them can be active in parallel. In the field **Max. Idle Time of a Natural Task** you can specify how long they should remain idle if their input queue is empty. These tasks are started if necessary.

Task Names

The (sub)task names are SYSEORttnnn, where *tt* is the task number and *nnn* is the ESY node number.

Monitor Tasks and the Entire System Server

Before you specify several Monitor tasks or allow several Natural tasks, you should check the value of NATNUMSUB in the Entire System Server startup parameters.

If not enough (sub)tasks are allowed for Entire System Server, a message will be issued by Entire Operations 3.2.1 after an attempted task start, and the task activity is taken over by the main task (Task 1). This could decrease Monitor performance.

Dynamic Reconfiguration of the Task Profile

The task profile can be modified (in the Task definition), while the Monitor is running. All tasks stop briefly, then the unused tasks are stopped and the newly-defined tasks are started.

This permits adaptation to different workloads in the running Monitor.

How Monitor Tasks are executed

The execution of Monitor (sub)tasks is internally controlled by the Entire System Server view Natural-SUB-TASK.

In OS/390 and VSE/ESA, subtasks run under the Monitor Entire System Server node.

In BS2000/OSD, one batch job is run for each Monitor task.

In UNIX, each Monitor task uses a separate process.

Each task has an internal control record in the database. To display the current status of the tasks, press PF9 (Tasks) in the Entire Operations 3.2.1 Monitor window (see the subsection Display Monitor Task Status).

Note:

All tasks use the same database files.

Global Message Code Table

This function allows you to select message codes to be checked by default after each job termination.

To select message codes for checking

- Select option **6** Global Message Code Table from the System Services Menu.

The Default Message Code Table appears with a list of all current codes:

| | | |
|---|---------------------------|--------------|
| 25.04.00 | *** Entire Operations *** | 15:48:10 |
| Default Message Code Table | | |
| ----- | | |
| Usage: These message codes will be searched by default during each End-of-Job Checking. | | |
| Message Code | Severity | OpSys |
| ABC1234__ | 0012 | BS2000/OSD__ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| Command => _____ | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | |
| Help End Save Menu | | |

Field Descriptions: Default Message Code Table

| Field | Meaning |
|--------------|---|
| Message Code | The code, e.g. IEF999I |
| Severity | <p>The highest resulting severity code of a job will be compared with the default condition code value to be treated as not ok. In other words: The detection of the message causes a simulated condition code setting.</p> <p>The default condition/severity code can be defined in Entire Operations 3.2.1 Defaults by selecting the OS/390 option under Operating System Specials. For more details, see Defaults for OS/390 and MVS/XA in the subsection Entire Operations 3.2.1 Defaults.</p> |
| OpSys | Operating system, for which the message code is valid. If none is specified, the message is scanned for all operating systems. |

Resource Maintenance

The Resource Maintenance facility allows you to define resources to Entire Operations 3.2.1. The user can specify certain amounts of any of these resources as a prerequisite for a job. Entire Operations 3.2.1 does not submit the job until the specified amount is available.

To enter the Resource Maintenance facility

- Select option **7** Resource List from the System Services Menu.

A list of resources appears which are already defined to the system:

| | | | | | | |
|---|----------------------|---------------------------------|-------------|------------|--------------|--|
| 04.02.00 | | *** Entire Operations 3.2.1 *** | | | 12:51:13 | |
| Owner EXAMPLE | | Resource List | | | | |
| ----- | | | | | | |
| Cm | Resource Name | Type | Initial Qty | Qty In Use | | |
| | *----- | | | | | |
| - | \$QWERTY-RESOURCE | R | 50.00 | | | |
| - | A001 | R | 5.00 | | | |
| - | A2345678901234567890 | R | 2.00 | | | |
| - | EXPORT-RESOURCE | R | 9999.99 | | | |
| - | E52-PARALLEL | R | 2.00 | 2.00 | | |
| - | F-MACHINE AVAILABLE | R | 10.00 | | | |
| - | HUGO | R | 10.00 | | | |
| - | HUGO-1 | R | 4711.00 | 30.00 | | |
| - | P-115454-A | R | 1.00 | | | |
| - | P-115553-B | R | 10.00 | | | |
| - | PARA-1 | R | 2.00 | | | |
| - | P180131A | R | 15.00 | | | |
| ***** m o r e ***** | | | | | | |
| D | Delete | M | Modify | W | Where Used | |
| | | | | | | |
| Command => _____ | | | | | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- | | | | | | |
| Help | | Add | End | Save | Up Down Menu | |

If no resources have been defined, the list is empty.

Column Headings: Resource List

Meaning of the column headings:

| Column | Meaning |
|---------------|---|
| Cmd | One-character line command input field. Possible values: M Modify selected resource definition. D Delete resource. W Where used. This opens a screen which shows the current usage of the resource by active jobs, see Entire Operations User's Guide, Section Symbols. |
| Resource Name | Name of resource. This can reflect real resources or can describe a fictitious resource. In the field beginning with an asterisk *, just beneath this heading, you use an asterisk as wildcard to enter selection criteria for the resource names. |
| Type | Type of resource. Possible values: U Un-reusable, quantitative. R Reusable, quantitative. N Not quantitative (absolute) For a more detailed description, see the following subsections: Adding Resources and Modifying Resources. |
| Initial Qty | Total amount of the resource defined to the system. |
| Qty in use | Amount of resource currently used by running jobs. |

You can maintain resources using available line commands and PF keys. The following subsections describe the functions you can perform.

Adding Resources

To add a new resource to Entire Operations 3.2.1

- Press PF2 (Add) from the list of resources.

A window opens in which you can enter the resource definition:

```

25.04.00          *** Entire Operations ***          15:49:34
Owner EXAMPLE          Resource List
-----
Cm  Resource Name          Type  Initial Qty  Qty In Use
*-----
_   A                      R      10000.00
_   A2345678901 +-----+
_   EXPORT-RESO !                      !
_   E52-PARALLE !          Resource Definition !
_   F-MACHINE A !                      !
_   HUGO          ! Resource Name ==> _____ !
_   HUGO-1        ! Type           ==> _         !
_   P-115454-A    !                      !
_   P-115553-B    ! Initial Quantity ==> _____ !
_   PARA-1        ! Quantity in use ==> _____ !
_   Pl           !                      !
_   R-10          ! Enter-PF1---PF2---PF3-----PF5-----PF12--- !
***** !          Help  Add   End      Save           Menu    ! *****
D Delete  M Mod +-----+
Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help  Add   End      Save           Up    Down           Menu

```

Field Descriptions: Resource Definition

Meaning of the input fields:

| Column | Meaning |
|------------------|---|
| Resource Name | Name of resource. User must specify this name when using this resource as a prerequisite for a job. |
| Type | Type of resource. Possible options: U Not reusable, quantitative. Amount of resource used by job is not released at job completion (e.g.: Paper) R Reusable, quantitative. Amount of resource used by job is released at job completion. (e.g.: Address Space) N Not quantitative. Resource is either entirely available or not available. (e.g.: a database or printer) |
| Initial Quantity | The initial quantity defined for U and R -type resources. |
| Quantity in use | Protected field showing amount of the resource currently in use. This value is useful when you wish to modify an existing resource. If you are defining a new resource, this field should show zero. |

You can enter the resource definition in the window. Resources can reflect real system resources, or they can be fictitious to control the job flow.

Press PF2 (Add) to save the definition and clear the window and add another resource. You can add any number of resources.

When you have finished, press PF5 (Save) to save the resource definition(s). Press PF3 (End) to close the window and return to the list of resources. The new resource(s) should appear in the list.

Modifying Resources

To modify a resource

1. Enter **M** in the line input field of the selected resource in the list of resources and press Enter.

The Resource Definition window opens with the current resource definition.

2. You can modify the resource by overtyping the current values. Press PF5 (Save) to save the modified resource. Press PF3 (End) to return to the list of resources.

Deleting Resources

To delete a resource from the system

1. Enter **D** in the line command input field of the selected resource in the list of resources and press Enter.

A window opens in which you can confirm deletion by entering the resource name.

2. Enter the resource name and press Enter to perform the deletion and close the window.

Mailbox Maintenance

Mailboxes are a logical entity within Entire Operations 3.2.1 and serve to notify users of pending input conditions.

A mailbox can be specified for an **input condition** and a **user**.

When the input condition is not fulfilled for a job, Entire Operations 3.2.1 sends a message to the mailbox. The user associated with the mailbox is notified when he calls the Main Menu and can perform the prerequisite task and set the condition manually.

▶ To define mailboxes to Entire Operations 3.2.1

- Select option **8 Mailbox Definition** from the System Services Menu.

A list appears of mailboxes already defined to the system:

| | | |
|---------------------|---------------------------|--------------------------------|
| 25.04.00 | *** Entire Operations *** | 14:34:29 |
| | Mailbox Definitions | |
| ----- | | |
| Cmd | Mailbox Name | Description |
| — | BRY-BOX | |
| — | DQA-BOX | for Quality Assurance purposes |
| — | DWI-BOX | |
| — | ESTACION20 | Espana por favor |
| — | EXPORT-BOX | Test import/export tool |
| — | GFR | |
| — | GFR1 | |
| — | GFR10 | |
| — | GFR11 | |
| — | GFR2 | |
| — | GFR3 | |
| — | GFR4 | |
| ***** m o r e ***** | | |
| D Delete | M Modify | |
| Command => _____ | | |
| Enter-PF1--- | PF2---PF3--- | PF4---PF5--- |
| PF6--- | PF7--- | PF8--- |
| PF9--- | PF10--- | PF11--- |
| PF12--- | | |
| Help | Add | End |
| | Save | Up |
| | Down | Menu |

If no mailboxes have been defined, the list is empty.

Column Headings: Mailbox Definitions

Meaning of the column headings:

| Column | Meaning |
|--------------|---|
| Cmd | One-character line command input field. Possible options: M modify mailbox D delete mailbox |
| Mailbox Name | User-defined name of mailbox. |
| Description | Short descriptive text. |

You can maintain mailboxes using available line commands and PF keys. The following subsections describe the functions you can perform.

Adding a Mailbox Definition

► To add a mailbox definition to Entire Operations 3.2.1

- Press PF2 (Add) from the list of mailboxes.

A window opens in which you can enter the mailbox definition:

```

25.04.00          *** Entire Operations ***          15:52:11
                  Mailbox Definitions
-----
Cmd  Mailbox Name      Description
-   -
-   BRY-BOX
-   DQA-BOX             for Quality Assurance purposes
-   DWI-BOX             +-----+
-   ESTACION20          !                               !
-   EXPORT-BOX          !                               !
-                       Mailbox Definition
-   GFR                 !                               !
-   GFR1                ! Mailbox Name ==> _____ !
-   GFR10               ! Description ==> _____ !
-   GFR11               !                               !
-   GFR2                ! ---PF1---PF3-----PF5-----PF12-- !
-   GFR3                !   Help   End       Save           Menu !
-   GFR4                +-----+
***** m o r e *****
D Delete  M Modify

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Add   End       Save       Up       Down           Menu

```

Field Descriptions: Mailbox Definition

Meaning of the input fields:

| Field | Meaning |
|--------------|-------------------------------|
| Mailbox Name | User-defined name of mailbox. |
| Description | Short descriptive text. |

Press PF5 (Save) to save the mailbox definition.

Press PF3 (End) to close the definition window and return to the list of mailboxes.

The new mailbox definition should appear in the list.

Modifying a Mailbox Definition

To modify a mailbox definition

1. Enter **M** in the line command input field of the selected mailbox in the list of mailboxes and press Enter.

The Mailbox Definition window opens with the current definition.

2. You can modify the definition by overtyping the current values.
3. Press PF5 (Save) to save the modification.
4. Press PF3 (End) to close the window and return to the list of mailboxes.

Deleting a Mailbox Definition

To delete a mailbox

1. Enter **D** in the line command input field of the selected mailbox and press Enter.

A window opens in which you can enter the mailbox name to confirm the deletion.

2. Enter the mailbox ID and press Enter to perform the deletion and close the window.

Internal Exit Directory

The Internal Exit Directory is handled automatically by Entire Operations 3.2.1. All user exits (user routines) are copied into the Entire Operations 3.2.1 library, if they are defined, modified, or executed. The internal names have the prefix **V**. Prefix **V** is restricted - this means that no Entire Operations 3.2.1 module and no user routine may use it.

► To list user exits defined to Entire Operations 3.2.1

- Select option **9** Internal Exit Directory from the System Services Menu.

A list appears of exits currently held in the directory:

```

25.04.00          *** Entire Operations ***          15:53:29
                  Internal Exit Directory

-----
Cmd Original Exit Type   Version   Internal   Name       Entry updated
- SYSEOR-T210 E40-J01R NAT 220007 SYSEOR210 V1400087 SYSEORMON 25.04.00 14:00
- SYSEOR-T210 E50-UR  MAC 210005 SYSEOR210 V1150048 SYSEOR14601 25.04.00 11:50
- SYSEOR-T210 E60-M02 MAC 220007 SYSEOR210 V1512595 SYSEOR14601 25.04.00 15:13
- SYSEOR-T210 MAC1     MAC 220007 SYSEOR210 V1053234 SYSEOR14601 25.04.00 10:53
-
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```

| Column | Meaning |
|---------------|--|
| Cmd | One-character line command input field. Possible option: D Delete entry. The entry is removed from the directory and the copy of the exit is deleted. An updated exit copy is used for the next call. |
| Original Exit | Library name and exit name of the exit's original version. |
| Type | MAC macro-program NAT Natural program |
| Version | Natural version. |
| Internal Name | Library name and exit name of the exit's internal version. |
| Entry updated | User ID, date and time of last update of user exit. |

Special Functions

Entire Operations 3.2.1 provides the System Administrator with various special global, control and recovery functions.

Note:

Some of these functions should be used only as recovery for uncommon situations.

► **To enter the Special Function facility**

- Select option **9** Special Functions from the System Services Menu.

The Special Function Selection screen appears:

```

29.02.00                *** Entire Operations 3.2.1 ***                14:05:47
                        Special Function Selection
-----
Cmd  Function
-   Global Schedule Extraction
-   Cleanup of the Active Database
-   Control of Activity Monitoring

-   Removal of all Monitor Commands
-   Deactivation in Foreground
-   System File Adaptations for new SM Level / Version

-   JCL File Password: Global Exchange
-   Clean User Node Access Table

-   Force prerequisite check for jobs in Passive Wait

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      End

```

Column Headings: Special Function Selection

Meaning of the column headings:

| Column | Meaning |
|----------|--|
| Cmd | To use a function, mark it with any character and press Enter. |
| Function | A short description of the function. |

Global Activation Extraction

The activation of networks is handled by the Entire Operations 3.2.1 Monitor in several steps:

- Extraction of the schedules, by default at the beginning of a new day.
- The activation of the extracted job networks at or shortly before the earliest start time of the network.

The examination of the schedules can be forced at any time by using this feature. Several schedule extractions on the same day have no influence on already extracted activations.

Note:

Any modification to a schedule automatically implies a Global Activation Extraction.

```

13.08.98          *** Entire Operations 3.2.1 ***          14:33:43
                   Special Function Selection
-----+-----+-----
Cmd  Functio !
      !
      !          Owner          Network          !
x    Global  !          Next Global Extractions          !
-    Cleanup !
-    Control !  Cmd  Date      Act.   Start   Run Type          !
      !      -    13.08.98  15:30          Global          !
-    Removal !      -    14.08.98  01:00          Global          !
-    Deactiv !
-    System  !
      !
-    JCL Fil !
-    Clean U !
      !
      !
      !
      !
      !  -----
      !  D Delete   M Start Time   S Active Symbols          !
Command => - !  PF1 Help   PF2 Add   PF3 End          !
nter-PF1---P +-----+-----+-----+-----+
              Help          End

```

Column Headings: Next Global Extractions

Meaning of the column headings:

| Column | Meaning | |
|--------|--|--|
| Cmd | One-character line command input field. | |
| | Possible options: | |
| | D | S |
| | Delete. Cancel the planned or scheduled network activation. | Active Symbols 1. Type: Schedule, active: The active symbols can be modified. 2. Type Awaiting Symbol Prompting: Symbol prompting for this planned activation will be performed. |
| Date | Date of activation extraction. | |
| Act. | Time of activation extraction. | |
| Start | Time when job network was started in operating system. | |
| Run | Assigned run number of job network. | |
| Type | Status of network activation processing. | |
| | Possible values: | |
| | English: Global Schedule, active On demand Activation now Activation in progress Sched. job xxxxxxxxxxxx Demand job xxxxxxxxxxxx Schedule table Aw. symbol prompting Activation error Symbol entry in progress Hold for symbol entry | German: Global Zeitplan, aktiv auf Anforderung Aktivierung jetzt Aktivierung in Arbeit Zeitpl. Job xxxxxxxxxxxx Angef. Job xxxxxxxxxxxx Zeitplan Erwartet Symbol-Eingabe Aktivierungs-Fehler Symbol-Eingabe in Arbeit Angehalten fuer Symbol-Eingabe |
| | | |

Adding Date and Time for Global Activation Extraction

To add a new Global Activation Extraction date and time

1. Press PF2 (Add).

A window opens in which you can specify data and time:


```

25.04.00          *** Entire Operations ***          15:33:33
                  Special Function Selection
-----+-----+-----+-----+-----+-----+-----+-----+-----+
Cmd  Functio !                                     !
      !                                     Owner      Network      !
x    Global !                                     Next Global Extractions !
-    Cleanup !                                     !
-    Control !   Cmd  Date      Act.  Start  Run Type      !
      !                                     !
-    Removal !                                     +-----+-----+
-    Deactiv !                                     !
-    System !                                     ! Schedule Activation Extraction !
      !                                     !
-    JCL Fil !                                     ! at Date 25.04.00 Time 15:35:48 !
      !                                     !
      !                                     ! PF3 End !
      !                                     +-----+-----+
      !                                     !
      ! ----- !
      ! D Delete  M Start Time  S Active Symbols !
Command => _ ! PF1 Help  PF2 Add  PF3 End !
Enter-PF1---P +-----+-----+-----+-----+-----+-----+-----+-----+
      Help      End

```

2. When you have entered the date and time in the window, press Enter.

Cleanup of the Active Database

Normally, the active database is cleaned automatically every time the Entire Operations 3.2.1 Monitor starts up or at the beginning of a new day.

Cleanup of the Active Database triggers an immediate cleanup at **any time**. It is executed by the Entire Operations 3.2.1 Monitor (in background). This cleanup removes expired active job entries, log records, and related material from the Entire Operations 3.2.1 database file. The retention periods of the Entire Operations 3.2.1 Default settings are used.

To activate the cleanup

1. Mark Cleanup of the Active Database with any character and press Enter.

A window opens:

```

25.04.00          *** Entire Operations ***          15:36:28
                  Special Function Selection
-----
Cmd  Function
-    Global Schedule Extraction
x    Cleanup of the Active Database
-    Control of Activity Monitoring

-    Removal  +-----+
-    Deactiva !                                     !
-    System F ! Please confirm                      !
              ! Active Database Cleanup              !
-    JCL File ! by entering CLEANUP                !
              ! ==> _____                      !
              ! PF3 End                             !
              +-----+

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      End

```

2. Confirm activation by entering CLEANUP and pressing Enter.

Note:

Alternatively, it is possible to run the cleanup from a batch job, see Cleanup in Batch-Mode, Section Special Monitor Features and Batch Job of the Entire Operations User's Guide.

Control of Activity Monitoring

Allows interaction with non-conversational Entire Operations 3.2.1 Activity Monitoring displays started on other terminals. They can be stopped, or the interval time can be modified.

To open the Activity Monitoring window

- Mark Control of Activity Monitoring with any character and press Enter:

A window opens:

```

25.04.00          *** Entire Operations ***          15:37:06
                  Special Function Selection
-----
Cmd  Function
_    Global Schedule Extraction
_    Cleanup of the Active Database
x    Control of Activity Monitoring

_    Removal of all Monitor Commands
_    +-----+
_    ! Entire Operations Activity Monitoring ! ion
_    !                                     !
_    ! on Terminal ==> DAEFTCG1             !
_    !                                     !
_    !          Stop ==> _ (mark)           !
_    !                                     !
_    !          Start at ==> 25.04.00  14:37:08 !
_    !          Interval ==> 10_____ Seconds !
Comm !                                     !
Enter ! PF3 End          PF10 Delete Entry ! ---PF9---PF10--PF11--PF12---
      +-----+

```

Field Descriptions: Entire Operations 3.2.1 Activity Monitoring

Meaning of the input fields:

| Field | Meaning |
|-------------|---|
| on Terminal | Specifies the terminal to be handled. Enter an asterisk * and press Enter to select a terminal from a list of active terminals. |
| Stop | Mark this field with any character to stop activity monitoring for the selected terminal. |
| Start at | Modify the date and time to specify when the display of activities will restart. |
| Interval | Specifies the interval, in seconds, between updates of the automatic display for the selected terminal. |

See the subsection Activity Monitoring for more details.

Removal of all Monitor Commands

This function removes all internal commands from the internal Entire Operations 3.2.1 Monitor command queue.

Warning:

Use this function only in case of emergency and with extreme care.

To activate the removal

1. Mark Removal of all Monitor Commands with any character and press Enter.

A window opens:

```

25.04.00          *** Entire Operations ***          15:38:31
                  Special Function Selection
-----
Cmd  Function
-   Global Schedule Extraction
-   Cleanup of the Active Database
-   Control of Activity Monitoring

x   Removal  +-----+
-   Deactiva !                               !
-   System F !   Please confirm               !
-           !   Monitor Command Cleanup      !
-   JCL File !   by entering MONITOR COMMAND  !
           !           ==> _____         !
           !   PF3 End                        !
           +-----+

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      End

```

2. Confirm removal by entering MONITOR COMMAND and pressing Enter.

Deactivation in Foreground

Usually the job deactivation is triggered in foreground and executed by the Entire Operations 3.2.1 Monitor.

Warning:

Use this function to deactivate active jobs in foreground only in case of emergency, and if the Entire Operations 3.2.1 Monitor is not active.

To perform deactivation

1. Mark Deactivation in Foreground with any character and press Enter.

A window opens:

```

25.04.00          *** Entire Operations ***          15:39:17
                  Special Function Selection
-----
Cmd  Function
-----
_    Global Schedule Extraction
_    Cleanup of the Active Database
_    Control of Activity Monitoring

_    Removal  +-----+
x    Deactiva !                                     !
_    System F ! Please confirm                      !
_    JCL File ! Job Deactivation                    !
_    JCL File ! by entering DEACTIVATION            !
              ! ==> _____                      !
              ! PF3 End                             !
              +-----+

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      End

```

2. Confirm deactivation by entering DEACTIVATION and pressing Enter.

System File Adaptations for new SM Level / Version

The Entire Operations 3.2.1 system file is usually automatically modified to the needs of a new SM level of Entire Operations 3.2.1 at the first startup of the Entire Operations 3.2.1 Monitor. The modification can be forced online by this function.

To perform data adaptation

1. Mark System File Adaptations for new SM Level / Version with any character and press Enter.

The following screen appears:

```

12.08.98          *** Entire Operations ***          10:44:55
                  Special Function Selection
-----
Cmd  Function
-    Global Schedule Extraction
-    Cleanup of the Active Database
-    Control of Activity Monitoring

-    Removal of all Monitor Commands
-    Deactivation in Foreground
-    System File Adaptions for new SM Level / Version

-    JCL File Password: Global Exchange
-    Clean User Node Access Table

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      End

```

2. Confirm system file adaptation by entering SYSTEM FILE and pressing Enter.

JCL File Password: Global Exchange

The Global Exchange function allows the System Administrator to exchange the file password for all definitions of a given file. This function should be used after the modification of a file password on the operating system level.

To open the Global File Password Exchange window

- Mark JCL File Password: Global Exchange with any character and press Enter:

The following screen appears:

```

25.04.00          *** Entire Operations ***          15:41:12
                  Special Function Selection
-----
Cmd  Function
-   Global Schedule Extraction
-   Cleanup of the Active Database
-   Control of Activity Monitoring

-   +-----+
-   !                                     !
-   !               Global File Password Exchange               !
-   !                                     !
x   !   JCL Node ===> ____                                     !
-   !   File      ===> _____                                     !
-   !   Password  ===> _____                                     !
-   !                                     !
-   !   PF1 Help   PF3 End                                     !
-   +-----+

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           End

```

Field Descriptions: Global File Password Exchange

Meaning of the input fields:

| Field | Meaning |
|----------|--|
| JCL Node | Number of Entire System Server node on which the file can be accessed. |
| File | The password for the file specified here will be exchanged in all job definitions. |
| Password | The new replacement password (invisible when entered). This password must then be used when editing or selecting members, as well as for JCL loading of the Monitor. |

Clean User Node Access Table

This function cleans the internal table of user accesses to nodes, which is created to avoid unnecessary node logons. The table will be built up dynamically again after the cleanup.

To perform the User Node Access Table Cleanup

1. Mark Clean User Node Access Table with any character and press Enter.

A window opens:

```

29.02.00          *** Entire Operations 3.2.1 ***          14:25:28
                  Special Function Selection
-----
Cmd  Function
-----
-    Global Schedule Extraction
-    Cleanup of the Active Database
-    Control of Activity Monitoring

-    Removal  +-----+
-    Deactiva !                                     !
-    System F ! Please confirm                       !
-              ! User Node Table Cleanup             !
-    JCL File ! by entering CLEANUP                 !
x    Clean Us !      ==> _____                 !
-              ! PF3 End                             !
-    Force pr +-----+

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      End

```

2. Confirm the User Node Access Table Cleanup by entering CLEANUP and pressing Enter.

Force Prerequisite Check for Jobs in Passive Wait

The invocation of this function forces the **active prerequisite check** for all jobs which have been set to the status **passive wait**.

To perform the prerequisite check forcing

1. Mark Force prerequisite check for jobs in Passive Wait with any character and press Enter.

The following screen appears:

| | | |
|---|---------------------------------|----------|
| 29.02.00 | *** Entire Operations 3.2.1 *** | 14:37:00 |
| Special Function Selection | | |
| ----- | | |
| Cmd | Function | |
| - | Global Schedule Extraction | |
| - | Cleanup of the Active Database | |
| - | Control of Activity Monitoring | |
| - | Removal | +-----+ |
| - | Deactiva ! | ! |
| - | System F ! Please confirm | ! |
| - | ! Force prerequisite check | ! |
| - | JCL File ! by entering FORCE | ! |
| - | Clean Us ! ==> _____ | ! |
| - | ! PF3 End | ! |
| x | Force pr | +-----+ |
| | | |
| Command => _____ | | |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--- | | |
| Help End | | |

2. Confirm the prerequisite check forcing by entering FORCE and pressing Enter.

Activity Monitoring

Activity monitoring is a non-conversational display of Entire Operations 3.2.1 events on a special terminal, for example in the computer center. Activity monitoring can be started on this terminal and can be controlled from any other terminal.

Starting Activity Monitoring

▶ To start activity monitoring

- Issue the following Natural command sequence:

```
LOGON SYSEOR (or the name of your Entire Operations 3.2.1 library)
ACTIVITY
```

Activity monitoring is started, and the following window opens:

```
14:41:36      ***  N A T U R A L  APPLICATION DEVELOPMENT SYSTEM  ***      95-08-25
User BRY              -  Main Menu  -                      Library SYSEOR210
                                                           Mode Structured

                Code  Function
                ----  -
+-----+
!                                     !
!           Entire Operations Activity Display           !
!                                     !
!   Query Interval (in minutes) ==> 60____              !
!                                     !
!   The query interval is the time span until the        !
!   next interruption query by the activity display.     !
!   In between, it can only be interrupted from         !
!   another terminal running Entire Operations.          !
!   PF3 End                                              !
!   !                                                    !
Logon accept !
Command ==> +-----+
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  D      R      A                                Canc
```

You can optionally modify the Query Interval (Update Interval), and press Enter to continue. The main Activity Display screen now appears:

| | | | | | |
|---------------------|-----------|---------------------------|-------|-------|--|
| 25.04.00 | | *** Entire Operations *** | | | 15:24:17 |
| Date | 25.04.00 | Activity Display | | | Monitor active 15:24:12 |
| from | 14:37:32 | Display Interval | 20 | sec. | Next Interrupt 16:23:14 |
| ----- | | | | | |
| Network | Job | Run | JobId | Time | Message |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Monitor Error 936 in EJA-EV-N Line 553 |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Message Sending: No Recipient defined |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Monitor Task 1 Restart by NOPMET-P |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Monitor Error 936 in EJA-EV-N Line 553 |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Message Sending: No Recipient defined |
| UKSJUTEST1 | TEST1JOB1 | 2 | 5094 | 14:37 | Monitor Task 1 Restart by NOPMET-P |
| QAN02MVS-M | | 2 | | 14:38 | Message Sending: No Recipient defined |
| E40-REC-01 | | 1032 | 2257 | 14:38 | Message Sending: No Recipient defined |
| E40-REC-01 | | 1033 | 2440 | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 753 | | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 754 | | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 755 | | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 756 | | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 757 | | 14:38 | Message Sending: No Recipient defined |
| E50-USRT | | 758 | | 14:38 | Message Sending: No Recipient defined |
| SUB-1 | | 2 | | 14:38 | Message Sending: No Recipient defined |
| SUB-1 | | 3 | | 14:38 | Message Sending: No Recipient defined |
| ***** m o r e ***** | | | | | |

Field Descriptions: Activity Display

Meaning of the fields in the screen header:

| Field | Meaning |
|------------------|--|
| from | Date and time of the first message on the screen. |
| Display Interval | The time after which the display is automatically refreshed. |
| Monitor active | The time the Monitor was last active. |
| Next Interrupt | The time when the Activity Display will be interrupted to prompt you for continuation. This is the end of the query interval as specified in the previous window (see above). |

Column Headings: Activity Display

Meaning of the column headings:

| Column | Meaning |
|---------|--|
| Network | Name of active network. |
| Job | Name of active job. |
| Run | Run number as assigned to active network by Entire Operations 3.2.1. |
| JobId | Job identifier as assigned by the operating system or by the job entry subsystem. |
| Time | Last action or check time for the job. |
| Message | Last message issued for the job by Entire Operations 3.2.1. Messages in Active Job Display in the Entire Operations Messages and Codes contains a list of possible messages. |

Once the Next Interrupt time is reached, you are prompted for continuation of the Activity Display by the following window:

```

25.04.00          *** Entire Operations ***          17:00:00
Date 25.04.00          Activity Display          Monitor active 15:07:10
from 14:00:00          Display Interval 10    sec.    Next Interrupt 17:00:00
-----
Network      Job      Run      JobId Time    Message
UR-LOG      UR-LOG03E  143      14:00  Natural Program UR-NAT terminated
UR-LOG      UR-LOG01E  143      5005 14:00  Waiting in Spool Input Queue
UR-LOG      UR-LOG01E  143      5005 14:03  Job executing (submitted 14:00)
E40-REC-02  E40-JO2      256      5044 14:05  Submitted as Job 5044
E40-REC-02  E40-JO2      256      5044 14:05  Ended ok

+-----+
!               !
! Activity Display was interrupted !
!               !
!               Restart ==> Y (Y,N) !
!               !
!               !
+-----+

00:00
***** Bottom of Data *****

```

Activity Monitoring Features

- The activity monitoring facility receives its data from the Entire Operations 3.2.1 log file.
- The activity monitoring facility only displays the most important messages. Error messages and other very important messages appear highlighted.
- The default setting displays events starting from current time minus one hour. As the display is updated, it scrolls automatically.
The start time and display refresh interval can be modified via the Control of Activity Monitoring option on the Special Functions menu. For more details, see the subsection Control of Activity Monitoring.